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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C
SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE (SMOS), SAN CLE--ETC(U)
JUL 78

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1 OF 4
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UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

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Dist.	Avail. and/or Special											
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19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Climatology, surface wind, temperature, precipitation, ceiling, visibility, relative humidity, station pressure, extreme temperatures, sea level pressure, daily temperature, weather conditions, monthly climatology, Naval shore facility, coastal region, snow depth, cloud cover, San Clemente, CA.												
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This data report consists of a six part statistical summary of surface weather observations. The six parts are: Part A - Weather Conditions/ Atmospheric Phenomena, Part B - Precipitation/Snowfall/Snow Depth, Part C - Surface Winds, Part D - Ceiling versus Visibility/Sky Cover, Part E - Psychrometric Summaries, Part F - Station Pressure/Sea Level Pressure.												

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1 JAN 73

EDITION OF 1 NOV 65 IS OBSOLETE

S/N 0102-LF-014-6601

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

STATION NO ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV (FT)	CALL SIGN	WMO NUMBER
93117	San Clemente Island, California	33°01'N	118°35'W	168	KNUC	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARQ LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office	Navy	1960	1961	33°01'N	118°35'W	175	Mercurial	Var
2.	*Weather service office	"	1962	1966	"	"	168	"	"
3.	Weather service office, bldg 60001	"	1966		"	"	**170	"	24
1a.	Weather service office	"	1966		"	"	173	Aneroid	24

* Aneroid barometer in use part of 1962. Mercurial being repaired.
 ** Resurveyed height.

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Installed 1960	100 yards east of weather office	AN/UMQ-5	RD-108		1. Barograph (marine) 2. Semi-auto met station (GMQ-14B) 3. Ceiling light (ML-121) 4. Cloud height set (GMQ-13) 5. Theodolite (ML-474-GM) 6. Transmissometer (GMQ-10)
2.	1962	900 feet north of building 60001	"	"	17'	

SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

DIRNAVOCEANMET ltr 3146 Ser 1032 dated 26 August 1977 (NOTAL) established the following policy for SMOS production and updating:

1. Ten years of data will be used as the standard period of record (POR).
2. All available data will be used for extreme values.
3. Summarize (update) every five years.

- a. Summarize the five year period (1973-1977) for all sections of the SMOS except extremes. The 5 year summary will be an intermediate SMOS to show secular trends. All available data through 1977 will be included for extreme values.

- b. The update in 1983 will include the POR 1973 through 1982, with all available data through 1982 for extreme values.

- c. The update in 1988 will be an intermediate SMOS (POR 1983-1987). All available data through 1987 will be included for extreme values.

- d. In 1993 the POR will be 1983 through 1992. All available data through 1992 will be used for extreme values.

Each standard POR (10 years) summary should be retained by individual stations along with the SMOS prepared in 1973. The retention of these summaries will provide the most comprehensive climatological file for your station.

DESCRIPTION: Preceding each section is a brief description of the data comprising each part of the summary and the manner of presentation. Tabulations are prepared from 3-hourly and daily observations recorded by stations operated by the U.S. Navy and U.S. Marine Corps. 3-hourly observations are defined as these record or record-special observations recorded at scheduled 3-hourly intervals. Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations (prepared from record-special, local, summary of the day, remarks, etc.).

COMMENT: All observations summarized in this tabulation have been computer edited for consistency and reasonableness prior to, or during, the processing stage. Efforts to improve the quality of the data after summarization are expensive, i.e., the improvement might consist of the elimination of one suspect or erroneous value. The cost of preparing "perfect" copy can be prohibitive due to the handwork involved. Suspect cases will occur infrequently, but users should not disregard extreme values completely as some could be valid. Questionable values will most likely be single occurrences shown by a percentage frequency of ".0". (This value indicates a percent less than ".05," which, in most cases, reflects a single observation.) Since most stations summarized now have in excess of 10,000 3-hourly observations, the occurrence of an occasional spurious value should not in itself be considered significant. Every effort is made by this office to maintain a high degree of accuracy and reliability in these tables, and the Naval Weather Service Detachment (NWSA), Asheville, N. C. welcomes your comment and criticisms.

PART A

WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from 3-hourly observations, and is presented in three tables as follows:

1. By month and annual, all hours and years combined.
2. By month and annual, all hours and years combined, by wind direction.
3. By month, all years combined, by standard 3-hour groups.

Occurrences of the various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.

Hail Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the total columns.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WEAN sources.)

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

NOTE: The total number of observations may vary among tables within the same month and period. Percentages may not always equal 100.0 due to rounding practices.

PART A

ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrences of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual columns may not equal the total columns.

This presentation is by month with annual totals, and is prepared with all years combined.

NOTE: A day with rain and/or drizzle was not separately reported in WBAN data prior to January 1949. Therefore percentages in this column are restricted to the period January 1949 and later.

A day with dust and/or sand was punched and included in this summary only when visibility was less than $5/8$ mile.

Percentage Frequency of Wind Direction vs. Weather Conditions - This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and years combined. The main body of the Summary consists of weather conditions (horizontally) and wind directions (vertically) to 16 compass points (plus calm). Column totals show the number of observations. "% Total" indicates percentage frequency of occurrences.

WEATHER CONDITIONS

93117

SAN CLEMENTE, CALIFORNIA

73-77

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	01		3.2				3.2	14.2	1.9			14.8	155
	04		4.5				4.5	14.8	.6			15.5	155
	07		3.9				3.9	17.4	1.3			18.7	155
	10		5.2				5.2	11.0	3.2			13.5	155
	13		3.2				3.2	9.0	4.5			12.3	155
	16		3.2				3.2	10.3	4.5			14.2	155
	19		3.9				3.9	10.3	3.2			12.9	155
	22		2.6				2.6	11.0	1.9			12.3	155
TOTALS			3.7				3.7	12.3	2.6			14.3	1240

NAVWEASERVCOM

WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

93117

SAN CLEMENTE, CALIFORNIA

73-77

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
FEB	01		2.8				2.8	14.2	.7			14.9	141
	04		5.7				5.7	17.0	.7			17.7	141
	07		4.3				4.3	14.9	.7			15.6	141
	10		4.3				4.3	12.1	2.1			14.2	141
	13		5.7				5.7	12.1	5.7			15.6	141
	16		4.3				4.3	9.2	4.3			13.5	141
	19		3.5				3.5	12.8	4.3			17.0	141
	22		6.4				6.4	15.6	1.4			17.0	141
TOTALS			4.6				4.6	13.5	2.5			15.7	1128

NAVWEASERVCOM

WEATHER CONDITIONS

93117

SAN CLEMENTE, CALIFORNIA

73-77

MAR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBS TO VISION	TOTAL NO. OF OBS.
MAR	01		3.9				3.9	5.8	1.9			7.7	155
	04		5.8				5.8	5.8	1.9			7.7	155
	07		5.2				5.2	7.7	.6			8.4	155
	10		5.2				5.2	5.2	3.9			8.4	155
	13		5.2				5.2	2.6	.6			3.2	155
	16		2.6				2.6	2.6	1.3			3.9	155
	19		3.2				3.2	4.5	1.9			7.1	155
	22		5.8				5.8	3.2	2.6			6.5	155
TOTALS			4.6				4.6	4.7	1.8			6.6	1240

WEATHER CONDITIONS

93117

SAN CLEMENTE, CALIFORNIA

73-77

APR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
APR	01		2.0				2.0	8.7	9.3			18.0	150
	04		2.7				2.7	9.3	11.3			20.7	150
	07		2.7				2.7	11.3	8.7			20.0	150
	10		2.7				2.7	9.3	12.7			20.0	150
	13		2.0				2.0	2.7	12.0			13.3	150
	16		2.0				2.0	4.0	12.7			15.3	150
	19		3.3				3.3	5.3	10.7			16.0	150
	22		4.0				4.0	8.0	9.3			17.3	150
TOTALS			2.7				2.7	7.3	10.8			17.6	1200

WEATHER CONDITIONS

93117 STATION

SAN CLEMENTE, CALIFORNIA

73-77

YEARS

MAY MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAY	01		2.6				2.6	14.8	11.6			25.2	155
	04		2.6				2.6	19.4	11.0			29.0	155
	07		5.2				5.2	21.3	13.5			32.9	155
	10		3.2				3.2	15.5	16.1			29.7	155
	13		2.6				2.6	7.7	18.7			24.5	155
	16		1.3				1.3	5.8	18.1			22.6	155
	19		1.9				1.9	5.8	13.5			17.4	155
	22		1.3				1.3	10.3	11.6			21.3	155
TOTALS			2.6				2.6	12.6	14.3			25.3	1240

WEATHER CONDITIONS

93117

SAN CLEMENTE, CALIFORNIA

73-77

JUN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUN	01		2.0				2.0	16.0	7.3			23.3	150
	04		2.0				2.0	18.0	7.3			25.3	150
	07		.7				.7	20.0	13.3			32.0	150
	10		2.0				2.0	10.0	17.3			25.3	150
	13		.7				.7	4.7	16.7			21.3	150
	16							3.3	18.7			21.3	150
	19							6.7	14.0			20.0	150
	22		.7				.7	12.0	12.0			23.3	150
TOTALS			1.0				1.0	11.3	13.3			24.0	1200

WEATHER CONDITIONS

93117

SAN CLEMENTE, CALIFORNIA

73-77

JUL

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUL	01		2.6				2.6	20.6	5.8			25.8	155
	04		3.2				3.2	25.2	5.2			29.7	155
	07		1.9				1.9	22.6	8.4			31.0	155
	10		1.9				1.9	9.7	19.4			29.0	155
	13		.6				.6	5.2	23.9			29.0	155
	16							1.3	21.3			22.6	155
	19		.6				.6	5.2	18.7			23.2	155
	22		.6				.6	15.5	11.6			25.8	155
TOTALS			1.4				1.4	13.2	14.3			27.0	1240

WEATHER CONDITIONS

93117

SAN CLEMENTE, CALIFORNIA

73-77

AUG

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
AUG	01		.6				.6	17.4	7.1			23.2	155
	04		1.9				1.9	23.2	6.5			27.7	155
	07		1.3				1.3	18.7	14.8			31.6	155
	10		1.3				1.3	9.0	18.7			25.8	155
	13		.6				.6	3.2	18.1			21.3	155
	16		.6				.6	3.2	16.8			20.0	155
	19		.6				.6	6.5	14.8			20.6	155
	22		.6				.6	12.3	13.5			23.9	155
TOTALS			.9				.9	11.7	13.8			24.3	1240

WEATHER CONDITIONS

93117 STATION

SAN CLEMENTE, CALIFORNIA

73-77

YEARS

SEP MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	01		3.3				3.3	19.3	6.7			24.7	150
	04		4.0				4.0	21.3	8.7			28.0	150
	07		3.3				3.3	20.0	12.0			29.3	150
	10		2.0				2.0	11.3	15.3			24.7	150
	13		1.3				1.3	6.0	19.3			24.7	150
	16							6.0	18.0			22.0	150
	19	.7	1.3				1.3	14.0	16.0			26.7	150
	22							15.3	8.0			22.7	150
TOTALS		.1	1.9				1.9	14.2	13.0			25.4	1200

WEATHER CONDITIONS

93117

STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

OCT

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
OCT	01		2.6				2.6	23.2	5.2			27.1	155
	04		3.2				3.2	25.8	4.5			29.0	155
	07		.6				.6	23.9	3.2			26.5	155
	10							15.5	13.5			27.7	155
	13		.6				.6	9.0	18.1			25.2	155
	16		.6				.6	7.7	12.9			18.7	155
	19		.6				.6	17.4	6.5			23.2	155
	22							20.0	4.5			23.2	155
TOTALS			1.0				1.0	17.8	8.6			25.1	1240

WEATHER CONDITIONS

93117

STATION NAME
SAN CLEMENTE, CALIFORNIA

73-77

NOV
MONTH

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (LST.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
NOV	01		2.7				2.7	14.7	5.3			19.3	150
	04		.7				.7	15.3	6.7			20.7	150
	07	.7	1.3				1.3	14.7	6.0			18.7	150
	10	.7	.7				.7	12.0	8.7			18.7	150
	13							6.7	7.3			14.0	150
	16		2.0				2.0	6.7	10.0			16.7	150
	19		2.0				2.0	14.0	8.7			22.7	150
	22		2.0				2.0	14.7	4.0			18.7	150
TOTALS		.2	1.4				1.4	12.4	7.1			18.7	1200

WEATHER CONDITIONS

93117

STATION NAME
SAN CLEMENTE, CALIFORNIA

73-77

YEARS

DEC

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
DEC	01		3.2				3.2	16.8	5.2			21.3	155
	04		3.2				3.2	18.1	3.2			20.6	155
	07		1.9				1.9	18.1	3.9			21.9	155
	10		2.6				2.6	11.0	7.7			18.7	155
	13		1.9				1.9	7.1	12.9			18.1	155
	16	.6	3.2				3.2	5.2	11.0			14.9	154
	19		1.9				1.9	12.3	7.7			18.1	155
	22		3.2				3.2	14.2	3.9			17.4	155
TOTALS		.1	2.6				2.6	12.9	6.9			18.9	1239

WEATHER CONDITIONS

ALL MONTH

73-77

SAN CLEMENTE, CALIFORNIA

93117 STATION

STATION NAME

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	ALL		3.7				3.7	12.3	2.6			14.3	1240
FEB			4.6				4.6	13.5	2.5			15.7	1128
MAR			4.6				4.6	4.7	1.8			6.6	1240
APR			2.7				2.7	7.3	10.8			17.6	1200
MAY			2.6				2.6	12.6	14.3			25.3	1240
JUN			1.0				1.0	11.3	13.3			24.0	1200
JUL			1.4				1.4	13.2	14.3			27.0	1240
AUG			.9				.9	11.7	13.8			24.3	1240
SEP		.1	1.9				1.9	14.2	13.0			25.4	1200
OCT			1.0				1.0	17.8	8.6			25.1	1240
NOV		.2	1.4				1.4	12.4	7.1			18.7	1200
DEC		.1	2.6				2.6	12.9	6.9			18.9	1239
TOTALS		.0	2.4				2.4	12.0	9.1			20.2	14607

WEATHER CONDITIONS

ATMOSPHERIC PHENOMENA

93117

STATION NAME
SAN CLEMENTE, CALIFORNIA

63-77

YEARS

ALL

MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA FROM DAILY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	DAILY		23.1				23.1	32.5	23.1			40.8	412
FEB			23.7				23.7	31.8	22.0		.3	41.7	396
MAR		.7	24.7			.5	24.7	26.3	19.1			32.7	434
APR		.2	21.8				21.8	20.7	20.7			32.4	450
MAY			18.1				18.1	31.4	37.2			47.3	465
JUN			18.7				18.7	40.2	36.4			51.3	450
JUL		.6	11.4				11.4	43.2	30.8			61.5	465
AUG		.4	7.3				7.3	34.6	47.7			56.6	465
SEP		1.1	13.8				13.8	36.0	44.2			54.7	450
OCT		1.3	12.9				12.9	40.0	40.2		.2	52.3	465
NOV		1.1	24.9		.2		24.9	34.4	26.2			45.6	450
DEC		1.0	21.0		.3	.5	21.0	38.8	24.5			47.3	400
TOTALS		.5	18.4		.0	.1	18.4	34.2	32.7		.0	47.0	5302

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

93117

STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

JAN 1973-DEC 1977

YEARS

JANUARY

MONTH

ALL

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N									6.6	8.2	4.9			82.0
NNE									6.5	6.5	9.7			77.4
NE									8.6					91.4
ENE									4.8	2.4	4.8			90.5
E									3.2	4.8				91.9
ESE		2.0							4.1					93.9
SE	12.0													88.0
SSE	12.5	3.1							3.1	6.3				75.0
S	6.6	.9	2.8						12.3	1.9	3.8			75.5
SSW	5.3		2.6						25.0	7.9	2.6			61.8
SW	6.5								19.6	8.7	2.2			65.2
WSW	2.2								24.4		4.4			68.9
W	1.6	2.4	3.2						12.8	1.6	5.6			78.4
WNW	.7	.7	2.1						5.7					92.9
NW			.9						2.6	.9	2.6			94.0
NNW									7.8	3.1				89.1
VARIABLE														
CALM									2.1	4.9	1.5			85.9
TOTAL	26	7	13						111	41	28			1034
% TOTAL	2.1	.6	1.0						9.0	3.3	2.3			83.4

TOTAL NUMBER OF OBSERVATIONS

1,240

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

93117

SAN CLEMENTE, CALIFORNIA

JAN 1973-DEC 1977

FEBRUARY

ALL

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET "SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS "SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N									5.9	5.9	5.9			84.3
NNE										7.1				92.9
NE									5.9	17.6				76.5
ENE									9.5		4.8			83.7
E	9.4		1.6							1.6	4.7			85.9
ESE	4.5	2.3	2.3						9.1		4.5			79.5
SE	11.1	7.4							3.7	3.7				74.1
SSE	13.6		4.5						13.6	9.1	4.5			72.7
S	5.6	4.4	3.3						16.7	2.2	2.2			70.0
SSW	7.5	1.5	1.5						20.9	4.5	1.5			71.6
SW	1.6	1.6	1.6						17.7	6.5	6.5			66.1
WSW	3.3		1.7						16.7	3.3	3.3			73.3
W		.7	2.9						9.5	1.5	1.5			86.9
WNW			1.3						5.2	2.0	1.3			91.5
NW									5.9	1.0	1.0			92.2
NNW									5.7		3.8			90.6
VARIABLE														
CALM														
TOTAL	27	10	15						111	41	28			922
% TOTAL	2.4	.9	1.3						9.5	3.6	2.5			81.7

TOTAL NUMBER OF OBSERVATIONS

1,128

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

93117

SAN CLEMENTE, CALIFORNIA

JAN 1973-DEC 1977

ALL

STATION

STATION NAME

YEARS

MARCH

MONTH

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N									2.7	2.7			94.6
NNE									10.0				90.0
NE													100.0
ENE		10.0											90.0
E			4.8					14.3		4.8			83.7
ESE			9.1					9.1					90.9
SE								8.3					91.7
SSE	13.3	6.7						13.3					66.7
S	3.4	8.6	3.4					17.2	1.7	5.2			70.7
SSW	3.3	1.7	3.3					10.0		3.3			83.3
SW		3.4	3.2					3.4	1.7	3.4			84.5
WSW	1.4	2.7	1.4					8.2	.7	5.5			82.2
W	1.4	.7						1.7		1.7			93.5
WNW	1.4	1.4	1.1					1.1		1.1			93.8
NW	.8	3.1	.8					3.8		1.5			91.5
NNW	1.6	3.1						3.1					93.8
VARIABLE													
CALM	1.0		1.0					5.7					94.1
TOTAL	18	24	15					52	6	23			1119
% TOTAL	1.5	1.9	1.2					4.2	.5	1.9			90.2

TOTAL NUMBER OF OBSERVATIONS 1,240

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

STATION

93117 SAN CLEMENTE, CALIFORNIA

STATION NAME

JAN 1973-DEC 1977

YEARS

MONTH

APRIL

HOURS (L.S.T.)

5708 % FREE WIND DIR. VS WEATHER JAN 68

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N									6.7		13.3			66.7
NNE										11.1				88.9
NE									10.0		10.0			90.0
ENE									8.3		8.3			83.3
E	9.1								4.5		22.7			63.6
ESE	33.3										66.7			66.7
SE														33.3
SSE										10.0	20.0			70.0
S		1.7							6.9	6.9	12.1			72.4
SSW		1.5	1.5						6.2	6.2	26.2			60.0
SW	2.5		1.3						7.5	1.3	11.3			76.3
WSW	1.8		2.7						9.9	1.8	19.8			68.5
W		.3	2.0						6.7	1.0	6.7			84.6
WNW		1.3	1.1						2.3	.4	4.6			91.3
NW									.9	.9	8.8			90.3
NNW									5.1		10.3			87.2
VARIABLE														
CALM									9.4	5.9	18.8			64.5
TOTAL	8	7	17						65	23	130			967
% TOTAL	.7	.6	1.4						5.4	1.9	10.8			80.6

TOTAL NUMBER OF OBSERVATIONS

1,200

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

JAN 1973-DEC 1977
YEARS

MAY
MONTH

ALL
HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N									15.6		46.9			53.1
NNE									10.0		20.0			80.0
NE									14.3		42.9			42.9
ENE									57.1					42.9
E	6.7								6.7	13.3	33.3			46.7
ESE									14.3	28.6				57.1
SE									12.5	12.5				75.0
SSE	12.5								12.5	6.3	6.3			62.5
S			3.7						18.5	3.7	14.8			63.0
SSW			3.4						24.1	6.9	19.5			50.6
SW			2.1						9.3	1.0	19.5			69.1
WSW			4.5						9.8		17.3			69.9
W		.6	.9						5.4	.6	8.8			84.9
WNW			1.9						5.6	1.4	9.4			84.0
NW			2.1						2.1		14.6			81.3
NNW									6.5		16.1			80.6
VARIABLE														
CALM	1.0		4.1						20.6	7.2	17.5			58.7
TOTAL	4	2	26						128	28	177			908
% TOTAL	.3	.2	2.1						10.3	2.3	14.3			73.2

TOTAL NUMBER OF OBSERVATIONS

1,240

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

93117

SAN CLEMENTE, CALIFORNIA

JAN 1973-DEC 1977

JUNE

ALL

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREZZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N											8.3			91.7
NNE									33.3					66.7
NE											50.0			50.0
ENE														100.0
E														66.7
ESE									16.7	5.6	11.1			45.5
SE		20.0							27.3		20.0			60.0
SSE									33.3		8.3			58.3
S									14.9		17.2			67.8
SSW									15.5	.9	11.8			70.9
SW									13.6		14.5			71.8
WSW			2.4						9.5		15.9			73.8
W	.3		1.0						7.9		11.7			80.7
WNW			1.1						6.2		13.0			82.5
NW									4.8	2.4	11.9			81.0
NNW									16.7		25.0			58.3
VARIABLE														
CALM			1.3						21.1	1.9	10.5			64.5
TOTAL	1	1	10						130	6	158			907
% TOTAL	.1	.1	.8						10.6	.5	13.2			75.6

TOTAL NUMBER OF OBSERVATIONS 1,200

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

93117

SAN CLEMENTE, CALIFORNIA

JAN 1973-DEC 1977

ALL

JULY

HOURS (L.S.T.)

STATION NAME

YEARS

MONTH

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N											13.3			86.7
NNE											28.6			71.4
NE														100.0
ENE											25.0			75.0
E									21.4		7.1			71.4
ESE									20.0		20.0			60.0
SE														100.0
SSE									25.0	12.5				62.5
S			1.0						21.6	2.0	20.6			54.9
SSW									14.4	1.8	17.1			66.7
SW									12.4		14.4			73.9
WSW			2.1						11.2	1.6	11.7			74.5
W	.3		1.5						6.7	1.0	14.9			77.1
WNW			2.8						9.4		11.3			80.2
NW									9.5		9.5			81.0
NNW			7.7								23.1			69.2
VARIABLE														
CALM									24.0	1.0	11.0			60.0
TOTAL	1		17						146	17	177			897
% TOTAL	.1		1.4						11.8	1.4	14.3			72.3

TOTAL NUMBER OF OBSERVATIONS

1,240

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PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

STATION 93117 SAN CLEMENTE, CALIFORNIA JAN 1973-DEC 1977 MONTH ALL HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N		15.4							30.8		30.8			38.5
NNE		25.0							50.0					50.0
NE									75.0					25.0
ENE		16.7							50.0		16.7			33.3
E		6.7							20.0		40.0			40.0
ESE		16.7							16.7		50.0			33.3
SE														100.0
SSE									14.3					85.7
S			1.0						22.6		14.5			64.5
SSW			1.2						10.5		17.4			74.4
SW									12.6		19.8			70.3
WSW									9.2	.5	11.9			79.5
W									6.2	.2	8.7			85.3
WNW									4.9	.7	13.2			82.6
NW			3.7						14.8		7.4			77.8
NNW											26.7			73.3
VARIABLE														
CALM	1.0	1.0	1.0						26.9	3.8	24.0			48.1
TOTAL	1	7	4						138	7	171			939
% TOTAL	.1	.6	.3						11.1	.6	13.8			75.7

TOTAL NUMBER OF OBSERVATIONS 1,240

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

93117

SAN CLEMENTE, CALIFORNIA

JAN 1973-DEC 1977

SEPTEMBER

ALL

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N											33.3			66.7
NNE											66.7			33.3
NE														100.0
ENE	22.2								11.1		11.1			66.7
E									15.0	5.0	15.0			65.0
ESE									22.2		22.2			55.6
SE											30.0			70.0
SSE									6.7					93.3
S			3.6						19.3	1.2	9.6			67.5
SSW			3.3						16.7		11.7			73.3
SW	1.1		1.1						16.0		12.8			73.4
WSW		.8	1.6					.8	27.1	.8	14.0			62.0
W			1.2						9.5	.3	14.5			78.1
WNW	.5		1.3						10.7	.3	9.7			78.1
NW									12.5	1.8	14.3			73.2
NNW									6.9	3.4	6.9			82.8
VARIABLE														
CALM									13.2	.8	11.6			74.6
TOTAL	4	1	1.0					1	162	8	156			885
% TOTAL	.3	.1	1.5					.1	13.5	.7	13.0			73.8

TOTAL NUMBER OF OBSERVATIONS

1,200

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

93117

SAN CLEMENTE, CALIFORNIA

JAN 1973-DEC 1977

OCTOBER

ALL

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREZZING RAIN FREEZING DRIZZLE	SLEET ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N									6.5	6.5	17.4			71.7
NNE									4.8		9.5			85.7
NE									11.1					88.9
ENE									10.0	20.0				70.0
E									5.6		22.2			72.2
ESE										25.0				75.0
SE										7.1				92.9
SSE									5.0	15.0	5.0			75.0
S			3.1						16.9					83.1
SSW			1.3						25.0	2.5	1.3			71.3
SW	1.1								23.1	1.1	16.5			60.4
WSW	1.5								24.2	.8	13.6			62.9
W			1.0						15.1	1.0	12.0			73.5
WNW			1.3						12.1	.7	5.4			81.9
NW			1.2						11.6	3.5	4.7			80.2
NNW			1.4						13.5	2.7	4.1			79.7
VARIABLE														
CALM									14.8	3.3	4.9			77.9
TOTAL	3		10						192	29	105			924
% TOTAL	.2		.8						15.5	2.3	8.5			74.5

TOTAL NUMBER OF OBSERVATIONS 1,240

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

JAN 1973-DEC 1977
YEARS

NOVEMBER
MONTH

ALL
HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREIZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS (ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N									3.7	3.7	7.4			65.2
NNE									14.8	3.7				81.5
NE									5.6		11.1			83.3
ENE											6.3			93.8
E									4.8	4.8	2.4			90.5
ESE											7.3			92.7
SE									6.3					93.8
SSE									10.0	5.0				85.0
S	1.4	1.4	2.7						14.9	4.1	8.1			73.0
SSW			3.2						22.2	1.6	11.1			66.7
SW	2.2		2.2						15.6	2.2	20.0			57.8
WSW									8.9	3.6	17.9			69.6
W	.5	1.1	1.6						14.1	1.6	6.0			77.2
WNW			.5						10.4	2.1	6.7			81.3
NW			1.0						8.0		2.9			87.3
NNW								1.1	7.9		2.2			88.8
VARIABLE														
CALM														
TOTAL	3	4	10					2	125	23	85			967
% TOTAL	.3	.3	.8					.2	10.4	1.9	7.1			80.6

TOTAL NUMBER OF OBSERVATIONS

1,200

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

93117

SAN CLEMENTE, CALIFORNIA

JAN 1973-DEC 1977

DECEMBER

ALL

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N									2.2		15.2			82.6
NNE									7.1	3.6	10.7			82.1
NE											4.0			96.0
ENE									3.2	3.2	6.5			87.1
E	6.1	1.5	1.5						1.5	1.5	6.1			81.8
ESE	7.0	1.8							7.0	5.3	12.3			70.2
SE	3.2	3.2							3.2	3.2				87.1
SSE	6.7								11.1	15.6	6.7			57.8
S	4.2	1.1	5.3						13.7	3.2	1.1			78.9
SSW	1.7		1.7						13.8	3.2	1.7			79.3
SW	1.6	1.6						1.6	20.6	3.2	4.8			69.8
WSW									12.5	1.8	8.9			80.4
W			.6						7.1	.6	5.8			86.5
WNW									6.9	2.3	6.9			85.5
NW			1.3						6.7	1.3	1.3			90.7
NNW									6.6	1.6	8.2			83.6
VARIABLE														
CALM									13.0	7.9	11.1			70.4
TOTAL	19	5	9					1	113	46	85			986
% TOTAL	1.5	.4	.7					.1	9.1	3.7	6.9			79.6

TOTAL NUMBER OF OBSERVATIONS

1,239

PERCENTAGE FREQUENCY OF WIND DIRECTION
VS. WEATHER CONDITIONS

93117

SAN CLEMENTE, CALIFORNIA

JAN 1973-DEC 1977

ALL

ALL

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N		.5							5.8	3.5	13.9			79.1
NNE		.6							7.6	4.1	9.4			80.0
NE									7.7	2.1	5.6			85.2
ENE	1.2	1.2							8.8	2.3	5.8			82.5
E	3.4	.5	.5						6.1	2.9	9.3			78.8
ESE	3.1	1.6	.5						6.6	3.9	8.1			77.9
SE	4.5	2.6							3.2	2.6	3.9			83.1
SSE	6.3	.9	.5						10.8	8.1	4.1			70.7
S	2.0	1.4	2.6						16.3	2.2	9.2			69.8
SSW	1.3	.3	1.7						17.1	3.0	11.1			68.6
SW	1.0	.4	.9					.1	14.0	1.5	13.3			70.5
WSW	.6	.2	1.5					.1	13.9	1.0	13.0			71.9
W	.3	.3	1.1						8.0	.7	9.2			82.1
WNW	.3	.4	1.2						6.2	.8	6.5			86.0
NW	.1	.4	.8					.2	5.9	1.0	5.2			87.4
NNW	.2	.4	.4						7.2	1.1	6.1			85.3
VARIABLE														
CALM														
TOTAL	115	68	164					4	1473	275	1323			11455
% TOTAL	.8	.5	1.1					.0	10.1	1.9	9.1			78.4

TOTAL NUMBER OF OBSERVATIONS

14,607

PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

This portion of the Uniform Summary presents in two sets of tables, the daily amounts and extreme values of the following:

PRECIPITATION

DERIVED FROM DAILY OBSERVATIONS

SNOWFALL*

DERIVED FROM DAILY OBSERVATIONS

SNOW DEPTH

DERIVED FROM DAILY OBSERVATIONS

1. The first table for each of the above presents the percentage frequency of various daily amounts, by month and annual, all years combined. The percentage of days with measurable amounts is also computed monthly and annually. Also shown for the precipitation and snowfall tables, are the monthly mean amounts, annual mean amounts (sum of monthly mean amounts), and the extreme monthly amounts (greatest and least). The latter statistics above are not presented for the snow depth summary since they would have limited use and may be misleading.
2. The second set of tables for each of the above presents the extreme daily amounts by individual year and month for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months). The extremes for a month are not printed nor used in computations if one or more observations are missing.

NOTE: Snow depth was recorded and punched at various hours during the period available from U. S. operated stations. The periods and hours used in the snow depth summary vary by service and period as follows:

Air Force Stations	From beginning of record thru 1945	Snow depth at 0800 LST
	Jan 46-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT
U. S. Navy and Weather Bureau Stations	From beginning of record thru Jun 52	Snow depth at 0030 GCT
	Jul 52-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT

* Hail was included in snowfall occurrence in the summary of the day observation prior to Jan 1956,

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
PRECIPITATION
(FROM DAILY OBSERVATIONS)

93117 STATION SAN CLEMENTE, CALIFORNIA 63-77 YEARS

AMOUNTS (INCHES)															PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
PRECIP.	NONE	TRACE	01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00	MEAN			GREATEST	LEAST	
SNOWFALL	NONE	TRACE	01-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4						
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120						
JAN	73.8	6.5	1.4	5.7	3.2	4.3	2.9	1.1	1.1					19.7	279	1.25	3.59	.00	
FEB	76.3	10.1	1.3	3.3	1.5	3.6	2.3	1.3	.3					13.6	396	.79	4.13	TRACE	
MAR	75.3	11.3	.9	2.5	3.2	4.1	2.1	.5						13.4	434	.65	1.75	TRACE	
APR	78.2	9.6	2.4	3.1	1.8	3.3	1.1	.2	.2					12.2	450	.56	2.68	TRACE	
MAY	81.9	14.6	.6	1.3	.4	.6		.2	.2					3.4	465	.17	1.70	TRACE	
JUN	81.3	15.3	.7	2.2		.4								3.3	450	.04	.28	.00	
JUL	88.6	10.3	.6	.2			.2							1.1	465	.03	.35	.00	
AUG	92.7	6.5	.2	.2			.2		.2					.9	465	.17	2.52	.00	
SEP	86.2	10.7	1.1	.2	.4	.4		.7	.2					3.1	450	.27	1.69	.00	
OCT	87.1	7.7	2.2	1.7	.2	.9	.2							5.2	465	.10	.33	TRACE	
NOV	75.1	10.4	1.8	4.4	1.8	2.0	1.6	2.0	.9					14.4	450	1.10	5.28	.02	
DEC	81.0	4.2	1.3	4.8	2.9	2.3	1.6	1.6	.3					14.6	310	.93	3.06	.08	
ANNUAL	81.5	9.8	1.2	2.5	1.3	1.6	1.0	.6	.3					8.8	5079	6.06			

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
SNOWFALL
(FROM DAILY OBSERVATIONS)

93117 STATION SAN CLEMENTE, CALIFORNIA 63-77 YEARS

STATION NAME

PRECIP. SNOWFALL DEPTH	NONE	TRACE	01-04	05-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85-94	95-100	PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
																MEAN	GREATEST	LEAST
JAN	100.0														279	.0	.0	.0
FEB	100.0														396	.0	.0	.0
MAR	100.0														434	.0	.0	.0
APR	100.0														450	.0	.0	.0
MAY	100.0														465	.0	.0	.0
JUN	100.0														450	.0	.0	.0
JUL	100.0														465	.0	.0	.0
AUG	100.0														465	.0	.0	.0
SEP	100.0														450	.0	.0	.0
OCT	100.0														465	.0	.0	.0
NOV	99.8	.2													450	TRACE	TRACE	.0
DEC	99.7	.3													310	TRACE	TRACE	.0
ANNUAL	100.0	.0													5079	.0		

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
SNOW DEPTH
(FROM DAILY OBSERVATIONS)

STATION 3317 SAN CLEMENTE, CALIFORNIA STATION NAME 63-77 YEARS

	AMOUNTS (INCHES)														PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	PRECIP.	NONE	TRACE	.01	.02-.05	.06-10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-30.4	OVER 50.4					
SNOW- DEPTH	NONE	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	100.0														279				
FEB	100.0														396				
MAR	100.0														434				
APR	100.0														450				
MAY	100.0														465				
JUN	100.0														450				
JUL	100.0														465				
AUG	100.0														465				
SEP	100.0														450				
OCT	100.0														465				
NOV	100.0														450				
DEC	100.0														310				
ANNUAL	100.0														5079				

PRECIPITATION
FROM DAILY OBSERVATIONS)

SAN CLEMENTE, CALIFORNIA

63-77

STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE	STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE
STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE	STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE

YEARS

24 HOUR AMOUNTS IN INCHES

[illegible]

NAVWEASERVCOM

PRECIPITATION
(FROM DAILY OBSERVATIONS)

STATION
93117

STATION NAME
SAN CLEMENTE, CALIFORNIA

63-77

YEARS

24 HOUR AMOUNTS IN INCHES
/BASED ON LESS THAN FULL MONTHS/

[illegible]

2

197043

EXTREME VALUES

SNOWFALL
(FROM DAILY OBSERVATIONS)

93117 STATION SAN CLEMENTE, CALIFORNIA STATION NAME 63-77 YEARS

24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
63				.0	.0	.0	.0	.0	.0	.0	.0	.0	
64		.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE		
65		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
66		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
67	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE
68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
72		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
73	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
75	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
77	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MEAN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	TRACE	TRACE	.00
S. D.	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TOTAL OBS.	279	396	434	450	465	450	465	465	450	465	450	310	5079

NAVWEASERVCOM

5723 Extreme Values Jan 1969

2

(FROM DAILY OBSERVATIONS)

SAN CLEMENTE, CALIFORNIA

93117

STATION NAME

YEARS

24 HOUR AMOUNTS IN INCHES
/BASED ON LESS THAN FULL MONTHS/

5723 Extreme Values Jan 1969

SNOW DEPTH
FROM DAILY OBSERVATIONS)

93117	SAN CLEMENTE, CALIFORNIA	63-77
STATION	STATION NAME	YEARS

DAILY SNOW DEPTH IN INCHES
BASED ON LESS THAN FULL MONTHS/

[illegible]

NAVWEASERVCOM

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

5724 DAILY AMOUNTS MAR 1978

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

1964-1977
YEARS

JANUARY
MONTH

FEBRUARY
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.03		1 1974			
2	0.14		4 1977			
3	0.09		2 1977			
4	0.74		19 1974			
5	0.11		3 1977			
6	0.27		7 1977*			
7	1.33		34 1974			
8	0.05		1 1974			
9	0.54		14 1970			
10	0.13		3 1968			
11	0.28		7 1970			
12	0.10		3 1971			
13	0.46		12 1969			
14	0.25		6 1969			
15	0.33		8 1965			
16	0.26		7 1973*			
17	0.02		1 1974			
18	0.21		5 1969			
19	0.12		3 1966			
20	0.26		7 1969			
21	0.55		14 1969			
22	1.42		36 1967			
23	0.07		2 1969			
24	0.40		10 1969			
25	1.04		26 1969			
26	0.49		12 1966			
27	0.32		8 1966			
28	0.13		3 1969			
29	0.04		1 1977			
30	0.83		21 1966			
31	0.04		1 1968			
Monthly	1.42		36 1967			

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.02		1 1966			
2	T		T 1975*			
3	0.54		14 1976			
4	0.05		1 1976			
5	0.34		9 1976			
6	0.77		20 1966			
7	0.27		7 1973			
8	0.39		10 1976			
9	0.42		11 1975			
10	0.16		4 1970			
11	0.60		15 1973			
12	0.20		5 1969			
13	T		T 1975*			
14	T		T 1973*			
15	0.15		4 1969			
16	0.07		2 1971			
17	0.31		8 1968			
18	0.22		6 1969			
19	0.01		1971			
20	T		T 1973*			
21	0.34		9 1969			
22	0.07		2 1969			
23	0.95		24 1969			
24	0.64		16 1969			
25	1.02		26 1969			
26	0.04		1 1969			
27	0.06		2 1973			
28	0.15		4 1969			
29	T		T 1964			
30						
31						
Monthly	1.02		26 1969			

* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

93117 STATION
SAN CLEMENTE, CALIFORNIA
STATION NAME

1964-1977

YEARS

MARCH
MONTH

APRIL
MONTH

DAILY EXTREME AMOUNTS

DAY	PRECIPITATION GREATEST				SNOWFALL GREATEST		
	INCHES	MM	DATE		INCHES	MM	DATE
1	0.22	6	1970				
2	0.24	6	1976				
3	0.06	2	1976				
4	0.28	7	1970				
5	0.54	14	1975				
6	0.22	6	1965				
7	0.34	9	1974*				
8	0.21	5	1973				
9							
10	0.33	8	1975				
11	0.07	2	1975*				
12	0.10	3	1964				
13	0.18	5	1968				
14	T	T	1966				
15	0.35	9	1965				
16	0.49	12	1977				
17	T	T	1967				
18	T	T	1969				
19	0.03	1	1973				
20	0.31	8	1973				
21	0.39	10	1969				
22	0.15	4	1964				
23	T	T	1967*				
24	0.17	4	1977				
25	0.06	2	1977				
26	0.08	2	1974				
27	0.38	10	1974				
28	T	T	1975*				
29	T	T	1974*				
30	0.08	2	1974				
31	0.85	22	1965				
Monthly	0.85	22	1965				

DAY	PRECIPITATION GREATEST				SNOWFALL GREATEST		
	INCHES	MM	DATE		INCHES	MM	DATE
1	0.90	23	1965				
2	0.11	3	1969				
3	0.40	10	1965				
4	0.31	8	1965				
5	0.15	4	1975				
6	0.09	2	1975				
7	0.01		1967				
8	2.03	52	1975				
9	0.09	2	1965				
10	0.07	2	1965				
11	0.33	8	1967				
12	0.18	5	1976				
13	0.01		1976				
14	0.50	13	1971				
15	0.03	1	1975				
16	0.19	5	1975				
17	0.21	5	1963				
18	0.12	3	1967				
19	0.11	3	1964				
20	0.09	2	1967				
21	0.07	2	1967				
22	0.04	1	1967				
23	0.02	1	1964				
24	0.15	4	1974				
25	0.01		1963				
26	0.01		1963				
27	0.01		1970*				
28	0.02	1	1967				
29	0.01		1967*				
30	0.01		1964				
31							
Monthly	2.03	52	1975				

* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

1963-1977
YEARS

MAY
MONTH

JUNE
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	T	T	1977			
2	T	T	1968*			
3	T	T	1966			
4	0.04	T	1969			
5	T	T	1971*			
6	0.17	4	1976			
7	0.18	5	1971			
8	1.07	27	1977			
9	0.15	4	1967			
10	0.03	1	1967			
11	T	T	1977*			
12	0.53	13	1977			
13	T	T	1977*			
14	T	T	1973			
15	T	T	1973*			
16						
17	T	T	1973*			
18	T	T	1973*			
19	0.03	1	1975			
20	T	T	1969*			
21	T	T	1967			
22	T	T	1967			
23	T	T	1977*			
24	T	T	1977*			
25	T	T	1975*			
26	T	T	1966			
27	0.01		1971			
28	0.10	3	1971			
29	T	T	1971			
30	T	T	1973*			
31	0.02	1	1973			
Monthly	1.07	27	1977			

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.03	1	1973			
2	T	T	1964			
3	T	T	1975*			
4	T	T	1974*			
5	T	T	1965			
6	T	T	1973*			
7	0.21	5	1972			
8	0.03	1	1972			
9	0.03	1	1972			
10	0.11	3	1976			
11	0.03	1	1963			
12	T	T	1967*			
13	T	T	1975*			
14	T	T	1968			
15	T	T	1975*			
16	0.05	1	1969			
17	0.03	1	1963			
18						
19	T	T	1975*			
20	0.01		1972			
21	T	T	1970*			
22	T	T	1972*			
23	T	T	1972*			
24	0.01		1969			
25	T	T	1968			
26	T	T	1971			
27	T	T	1973*			
28	T	T	1968			
29						
30	T	T	1972			
31						
Monthly	0.21	5	1972			

* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

93117 STATION
SAN CLEMENTE, CALIFORNIA
STATION NAME

1963-1977

YEARS

DAILY EXTREME AMOUNTS

5724 DAILY AMOUNTS MAR 1978

JULY
MONTH

AUGUST
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	T	T	1965			
2	T	T	1974			
3	T	T	1967			
4	T	T	1967			
5	T	T	1974*			
6	T	T	1974*			
7	T	T	1970*			
8	T	T	1970*			
9	T	T	1974			
10	T	T	1974			
11	0.05	T	1969			
12	T	T	1973			
13	0.01	T	1975			
14	T	T	1974			
15	T	T	1975*			
16	T	T	1965*			
17	T	T	1975			
18	T	T	1975*			
19	T	T	1975*			
20	0.01	T	1972			
21	T	T	1975*			
22	T	T	1975*			
23	T	T	1971			
24	0.01	T	1971			
25						
26	0.35	9	1967			
27	T	T	1966			
28	T	T	1974*			
29	T	T	1974*			
30	T	T	1974*			
31	T	T	1967			
Monthly	0.35	9	1967			

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1						
2	0.04	T	1966			
3	T	T	1973			
4	T	T	1973			
5	T	T	1967*			
6	T	T	1972*			
7	T	T	1963			
8						
9						
10	T	T	1973			
11	T	T	1973			
12	T	T	1974*			
13						
14	T	T	1973*			
15	T	T	1976*			
16	0.49	12	1977			
17	2.02	51	1977			
18	0.01	T	1977			
19	T	T	1975*			
20	T	T	1973*			
21						
22						
23						
24						
25						
26						
27						
28						
29	T	T	1972			
30	T	T	1972			
31	T	T	1972*			
Monthly	2.02	51	1977			

* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

1963-1977

YEARS

SEPTEMBER
MONTH

OCTOBER
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.07	2	1967			
2						
3	0.11	3	1976			
4	0.70	18	1963			
5	0.61	15	1972			
6	0.08	2	1972			
7						
8	T	T	1975			
9	0.23	6	1976			
10	1.12	28	1976			
11	T	T	1976*			
12	T	T	1975*			
13	T	T	1975*			
14	T	T	1975*			
15	T	T	1976*			
16	T	T	1973*			
17	0.99	25	1963			
18	T	T	1971*			
19	T	T	1973*			
20	T	T	1967			
21	T	T	1967			
22						
23	T	T	1973			
24	T	T	1967*			
25	0.01		1977*			
26	T	T	1968*			
27	0.03	1	1977			
28	T	T	1977*			
29	0.01		1966			
30	T	T	1971*			
31						
Monthly	1.12	28	1976			

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	T	T	1968			
2						
3	0.01		1972			
4	T	T	1966*			
5	0.03	1	1977			
6	0.03	1	1975			
7	T	T	1972			
8	0.04	1	1973			
9	T	T	1972*			
10	0.31	8	1966			
11	0.03	1	1975			
12						
13	0.01		1973			
14	T	T	1968			
15	0.02	1	1972			
16	0.22	6	1963			
17	T	T	1971*			
18	0.14	4	1972			
19	0.01		1972			
20	0.01		1972			
21	0.01		1973			
22	T	T	1973			
23	0.01		1973			
24						
25						
26	0.02	1	1974			
27	0.02	1	1964			
28	0.10	3	1974			
29	0.21	5	1974			
30	0.16	4	1968			
31	T	T	1974*			
Monthly	0.31	8	1966			

* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

93117 STATION SAN CLEMENTE, CALIFORNIA
STATION NAME

1963-1977

YEARS

DAILY EXTREME AMOUNTS

5724 DAILY AMOUNTS MAR 1978

NOVEMBER
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.02	1	1964			
2	T	T	1966			
3	T	T	1968*			
4	0.02	1	1972			
5	0.03	1	1977			
6	0.07	22	1969			
7	0.52	13	1966			
8	0.20	5	1969			
9	1.04	26	1969			
10	0.03	1	1969			
11	0.09	2	1972			
12	0.04	1	1971			
13	0.02	1	1972			
14	1.32	34	1965			
15	0.69	23	1965			
16	0.75	19	1965	T	T	1964
17	0.54	14	1972			
18	0.18	5	1973			
19	0.70	18	1963			
20	1.24	31	1967			
21	0.65	17	1967			
22	1.41	36	1965			
23	0.01	T	1977*			
24	0.22	6	1965			
25	0.14	4	1965			
26	0.15	4	1967			
27	T	T	1976*			
28	0.62	16	1970			
29	0.39	10	1970			
30	0.09	2	1967			
31						
Monthly	1.41	36	1965	T	T	1964

* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

DECEMBER
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.19	5	1973			
2	0.07	2	1966			
3	0.78	20	1966			
4	1.72	44	1974			
5	0.62	16	1966			
6	0.15	4	1966			
7	0.02	1	1972			
8	0.06	2	1969			
9	0.12	3	1965			
10	0.42	11	1965			
11	0.06	2	1968			
12	0.30	8	1965			
13	0.25	6	1965			
14	0.13	3	1965	T	T	1967
15	0.01	1	1971*			
16	0.06	2	1970			
17	0.06	2	1970			
18	0.58	15	1970			
19	0.13	3	1967			
20	0.38	10	1975			
21	0.13	3	1977			
22	0.04	1	1973			
23	T	T	1977			
24	T	T	1977			
25	0.53	13	1977			
26	0.35	9	1977			
27	0.10	3	1974			
28	0.72	18	1974			
29	0.05	1	1968			
30	0.10	3	1976			
31	0.18	5	1974			
Monthly	1.72	44	1974	T	T	1967

PART C

SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through 1963, and in tens of degrees starting in January 1964. When 90% or more of the daily observations of peak gust wind data are available for a month, the extreme is selected and printed. These values are then used to compute means and standard deviations for the entire period. Every month of a year must have valid observations present before the ALL MONTHS value is selected for that year. Means and standard deviations are computed when four or more values are present for any column. A supplementary list of Peak Gusts by year-month with < 90% observations reported is also provided.

NOTE: According to Circular N specifications, "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

2. Bivariate percentage frequency tabulations: Derived from 3-hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both direction and speed, and in addition the mean wind speed for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VAREBL.

- a. Three tables are prepared for all surface winds included, and for all years combined as follows:

- (1) Annual - all hours combined
- (2) By month - all hours combined
- (3) By month - by standard 3-hour groups

- b. A separate annual table is also presented for surface winds meeting the following ceiling and visibility conditions: INSTRUMENT CLASS: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

EXTREME VALUES

SURFACE WINDS
(FROM DAILY OBSERVATIONS)

93117 STATION SAN CLEMENTE, CALIFORNIA 63-77 YEARS

DAILY PEAK GUSTS IN KNOTS

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
63					NW 22NW 21NNW 15W 17SE 21W 20								
64					39W 32NNW 31W 21SE 21NE 29								
65	NW 39	NE 44NW 18W 37S 28W 32NNW 31	SW 28SW 42NW 25W 23W 19S 18	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	
66													
67	SW 27NNW 18W 37S 28W 32NNW 31	NE 44NW 18W 37S 28W 32NNW 31	SW 28SW 42NW 25W 23W 19S 18	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	
68	W 26SE 22NNW 31	NE 44NW 18W 37S 28W 32NNW 31	SW 28SW 42NW 25W 23W 19S 18	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	
69	S 36S 40	NE 44NW 18W 37S 28W 32NNW 31	SW 28SW 42NW 25W 23W 19S 18	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	
70	N 24NE 32	NE 44NW 18W 37S 28W 32NNW 31	SW 28SW 42NW 25W 23W 19S 18	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	39W 36NW 22W 20W 18NNW 21W 5	
71	29 3829	3929	3627	1929	1727	1412	2029	2231	2930	25	23	33	
72	10 2227	2129	2427	2627	2135	2128	2014	2809	1723	3320	2929	31	
73	30 3018	3928	3430	2828	2329	1830	1829	1529	14	20	28	44	
74	13 3931	3330	4130	3530	3729	2429	2227	2011	2827	4130	2905	44	
75	29 4130	3428	3630	3427	3429	3028	22	04	20	2009	28		
76	31 2029	31	29	4528	2028	2129	1629	2222	1903	2009	28		
77	24 3130	2628	3330	2517	3229	1629	1424	1528	1726	1831	31		

NAYWEASERVCOM

5723 Extreme Values Jan 1969

EXTREME VALUES

SURFACE WINDS (FROM DAILY OBSERVATIONS)

93117 STATION SAN CLEMENTE, CALIFORNIA 63-77 YEARS

DAILY PEAK GUSTS IN KNOTS
/BASED ON LESS THAN 90% OBSERVATIONS FOR MONTH/

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
63				WNW 13 1							WNW 38 12	0	WINDS DAYS
64	0	NE 27 9	0							ESE 20E 24	39WNW 28 25	18	WINDS DAYS
65		W 24 20					W 21 26				N 31 14	14	WINDS DAYS
66	NE 36 21												WINDS DAYS
67								SW 18 27					WINDS DAYS
68				WNW 36 26									WINDS DAYS
69			NNE 36NW 33 15	23									WINDS DAYS
70			SW 29WNW 31 5	23								SSW 28 20	WINDS DAYS
71	NE 19 27										31 36 19	20	WINDS DAYS
73										33 1910 9	1230 31 1	25	WINDS DAYS
75										33 3830 13	4035 29 18	16	WINDS DAYS
76			33 33 22								29 22 18	18	WINDS DAYS
77											29 12 4	4	WINDS DAYS
MEAN													
S. D.													
TOTAL OBS.													

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

2

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

JAN
MONTH

ALL WEATHER
CLASS

01
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	.6		.6								3.2	4.8
NNE	.6				.6							1.3	10.0
NE	.6		1.3		.6							2.6	9.8
ENE	.6	3.2										3.9	4.2
E	1.9	1.9	1.9									5.8	4.9
ESE	.6	1.3		.6								2.6	5.8
SE	2.6	1.3										3.9	3.2
SSE	1.9			1.3								3.2	7.2
S	1.3	6.5	1.9									9.7	5.1
SSW	3.9	1.3										5.2	3.4
SW	.6			1.9								2.6	11.8
WSW	1.3	.6		.6								2.6	4.5
W	2.6	1.9	4.3	1.3								10.3	6.7
WNW	1.9	2.6	3.9	1.9	.6							11.6	8.8
NW	1.9	1.3	1.3	1.9	.6							7.1	8.5
NNW	.6	.6	1.3									2.6	5.5
VARBL													
CALM												21.9	
	23.2	25.2	16.1	10.3	2.6	.6						100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

JAN
MONTH

ALL WEATHER
CLASS

04
HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.3		.6								2.6	6.0
NNE	.6	.6	.6	.6								3.2	9.4
NE	1.3	3.2										4.5	4.0
ENE	1.3	2.6										3.9	3.7
E	.6	1.9	3.2									5.8	6.4
ESE	1.3	2.6	1.9									5.8	6.0
SE	.6	.6	.6									1.9	5.0
SSE	1.3	1.3		.6	.6							3.9	7.8
S	1.9	5.8		1.3								9.0	5.4
SSW	1.3	.6		.6								2.6	6.3
SW	1.9		.6									2.6	3.0
WSW	.6	1.9										2.6	4.3
W	1.9	2.6	.6	.6								5.8	5.4
WNW	.6	3.9	2.6	1.3	1.9	.6						11.0	10.0
NW	1.3	1.3	3.2	1.3		.6						7.7	9.1
NNW	2.6		1.9									4.5	5.1
VARBL													
CALM												22.6	
	20.0	30.3	15.5	7.1	3.2	1.3						100.0	5.1

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

JAN
MONTH

ALL WEATHER
CLASS

07
HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.6	1.3	.6	.6							3.9	9.2
NNE	1.3	1.3	.6									3.2	4.0
NE	.6	.6		.6								1.9	6.7
ENE	.6	3.2	.6									4.5	4.6
E	2.6	4.5	1.9									9.0	4.9
ESE	2.6	1.9	1.9									6.5	4.5
SE	1.3	1.3										2.6	3.5
SSE	3.2	1.3			1.3							5.8	6.4
S	5.2	8.4	1.3	.6								15.3	4.7
SSW		3.9										3.9	5.3
SW	1.3		.6									1.9	4.3
WSW		1.9										1.9	5.0
W	2.6	1.9	1.3	1.9								7.7	6.3
WNW	.6	1.3	3.2	1.9	1.3	.6						9.0	11.3
NW		.6	.6	1.9	.6	.6						4.5	13.6
NNW		1.9	.6									2.6	5.5
VARBL													
CALM												15.5	
	22.6	34.8	14.2	7.7	3.9	1.3						100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

JAN
MONTH

ALL WEATHER
CLASS

10
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.2	2.0										5.8	3.3
NNE	.6	1.3	.6	.6								3.2	7.0
NE	.6	2.6	1.3	.6								5.2	6.9
ENE	1.9	3.9	1.3									7.1	5.1
E	.6	2.6	2.6	1.3								7.1	7.3
ESE	1.9	3.2	.6									5.8	4.0
SE		1.3	.6		.6							2.6	10.0
SSE	.6	1.3	1.3									3.2	5.6
S	1.3	2.6	1.9	1.3								7.1	6.8
SSW	1.3	1.9	1.3									4.5	4.6
SW	.6	3.2	.6									4.5	5.0
WSW	1.9	.6	1.3									3.9	4.5
W	2.6	2.6	3.9		.6							9.7	6.6
WNW		1.3	4.5	3.2	.6							9.7	10.3
NW	1.3	1.3	1.3	1.9								5.8	7.8
NNW	.6	1.9	1.9	.6	.6							5.8	8.4
VARBL													
CALM												9.0	
	19.4	34.2	25.2	9.7	2.0							100.0	6.0

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

JAN

MONTH

ALL WEATHER

CLASS

13

HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.6	6.5		.6								9.7	5.1
NNE	1.3	2.6										3.9	4.5
NE	.6	.6	1.3									2.6	5.0
ENE	2.6	2.6	1.3									6.5	4.4
E		1.9	3.9	.6								6.5	8.3
ESE		1.3	1.3									2.6	7.3
SE							.6					.6	29.0
SSE		.6	.6									1.3	7.5
S	1.3		2.6	1.3								5.2	8.8
SSW	.6	5.8	1.3									7.7	4.8
SW	.6	3.2	1.9									5.8	5.3
WSW	1.3	2.6	.6									4.5	4.9
W	1.9	4.5	4.5	2.6								13.5	7.4
WNW		2.6	1.9	3.2	.6	.6						9.0	10.9
NW		.6	3.9	2.6	.6							7.7	11.1
NNW	2.6	4.5	2.6	.6								10.3	5.9
VARBL													
CALM												2.6	
	15.5	40.0	27.7	11.6	1.3	.6	.6					100.0	6.9

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

JAN
MONTH

ALL WEATHER
CLASS

16
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.9	.6	.6									5.2	3.0
NNE	1.3	1.3	.6									3.2	4.2
NE		.6	.6									1.3	7.0
ENE													
E	.6	1.3	1.3									3.2	5.0
ESE		.6										.6	4.0
SE		.6										.6	6.0
SSE		.6										.6	5.0
S	.6	.6	2.6	.6	1.3							5.8	9.9
SSW	2.6	4.5	3.9	1.3								12.3	6.2
SW	1.3	1.9	3.2									6.5	5.5
WSW	.6	1.9	.6									3.2	5.0
W	2.6	7.1	3.2		1.3							14.2	6.2
WNW	.6	6.5	3.9	4.5		.6						16.1	8.7
NW	.6	7.7	2.6	3.9	.6							15.5	8.0
NNW	1.3	2.6	3.2									7.1	6.1
VARBL													
CALM												4.5	
	16.1	38.7	26.5	10.3	3.2	.6						100.0	6.4

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

JAN
MONTH

ALL WEATHER

CLASS

19

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	3.2										5.2	3.9
NNE	1.3		.6									1.9	5.0
NE		.6	.6									1.3	6.0
ENE	.6											.6	3.0
E	.6	.6										1.3	3.0
ESE		1.9	1.3									3.2	5.8
SE													
SSE			.6									.6	10.0
S	.6	4.5	3.9									9.0	5.8
SSW	1.9	3.2	.6	.6								6.5	5.2
SW	1.3	.6	.6	.6								3.9	8.3
WSW	.6	5.2	.6									6.5	4.1
W	2.6	.6	4.5	1.3		.6						9.7	7.9
WNW	1.3	3.9	5.2	1.9	.6							12.9	7.8
NW	3.9	3.9	3.9	.6	.6	.6						13.5	7.2
NNW	1.3	3.2										4.5	4.3
VARBL													
CALM												19.4	
	18.1	31.6	22.6	5.2	1.9	1.3						100.0	5.1

TOTAL NUMBER OF OBSERVATIONS

153

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77
YEARS

JAN
MONTH

ALL WEATHER
CLASS

22
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.6	.6	.6									3.9	3.8
NNE													
NE	.6	2.6										3.2	4.0
ENE	.6											.6	3.0
E		.6		.6								1.3	8.0
ESE	2.6	1.3	.6									4.5	3.9
SE	.6	2.6		.6								3.9	5.0
SSE	.6	1.3										1.9	3.3
S	2.6	1.9	1.9	.6								7.1	5.3
SSW	2.6	3.2		.6								6.5	4.6
SW	.6	.6	.6									1.9	5.3
WSW	.6	.6	1.9	.6								3.9	6.8
W	1.9	2.6	3.9	1.3								9.7	7.1
WNW	.6	5.2	2.6	1.9	.6	.6						11.6	8.7
NW	3.9	3.2	3.9	1.3	.6							12.9	6.7
NNW	.6	2.6	.6									3.9	5.0
VARBL													
CALM												23.2	
	21.3	29.0	16.8	7.7	1.3	.6						100.0	4.6

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION
93117

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

JAN
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.2	2.0	.3	.3	.1							4.9	4.7
NNE	.9	.9	.4	.2	.2							2.5	6.0
NE	.6	1.4	.6	.2	.1							2.8	5.9
ENE	1.0	1.9	.4									3.4	4.4
E	.9	1.9	1.9	.3								5.0	6.1
ESE	1.1	1.8	1.0	.1								4.0	5.0
SE	.6	1.0	.2	.1	.1		.1					2.0	6.1
SSE	.7	1.0	.3	.2	.2							2.6	6.5
S	1.9	3.8	2.0	.7	.2							8.5	6.0
SSW	1.8	3.1	.9	.4								6.1	5.1
SW	1.0	1.2	1.0	.3	.1							3.7	6.0
WSW	.9	1.9	.6	.2								3.6	4.8
W	2.3	3.0	3.3	1.1	.2	.1						10.1	6.8
WNW	.7	3.4	3.5	2.5	.8	.5						11.4	9.4
NW	1.6	2.5	2.6	1.9	.5	.2						9.4	8.4
NNW	1.2	2.2	1.5	.2	.1							5.2	5.9
VARBL													
CALM												14.8	
	19.5	33.0	20.6	8.7	2.5	.8	.1					100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

1240

DIRNAVOCEANMET SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

0886

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

FEB
MONTH

ALL WEATHER
CLASS

01
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

0880

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	.7			.7							2.8	7.0
NNE	.7											.7	1.0
NE	.7											.7	1.0
ENE	.7	.7	.7									2.1	5.7
E		1.4	2.1	.7								4.3	7.8
ESE		1.4	2.8	.7								5.0	8.1
SE	1.4	1.4	1.4									4.3	5.0
SSE	.7											.7	3.0
S	2.1	5.0	1.4		1.4							9.9	6.9
SSW	.7	2.8	1.4									5.0	5.9
SW	2.1	1.4	.7	.7								5.0	5.1
WSW	.7	.7	.7									2.1	4.7
W	3.5	3.5	2.8	.7	.7							11.3	6.3
WNW	2.1	3.5	5.0	2.1		.7						13.5	8.0
NW	.7	1.4	2.8	2.8								7.8	9.2
NNW	.7	2.1		.7								3.5	5.4
VARBL													
CALM												21.3	
	18.4	26.2	22.0	8.5	2.8	.7						100.0	5.3

TOTAL NUMBER OF OBSERVATIONS

141

0870

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77
YEARS

FEB
MONTH

ALL WEATHER
CLASS

04
HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	.7	1.4	.7								4.3	6.2
NNE	.7	1.4										2.1	4.3
NE	1.4	.7										2.1	2.7
ENE		.7										.7	5.0
E		2.8	3.5	2.1								8.5	8.2
ESE		2.1	1.4	1.4								5.0	8.4
SE	1.4	.7	.7									2.8	4.5
SSE	.7	.7										1.4	3.5
S	2.1	4.3	1.4	1.4	.7							9.9	7.3
SSW	1.4	.7										2.1	3.7
SW	1.4	1.4	2.1	.7								5.7	5.9
WSW	1.4	2.8		.7								5.0	6.0
W		3.5	3.5	.7								7.8	7.5
WNW	1.4	5.0	2.8	3.5								12.8	7.4
NW	1.4	.7	1.4	2.1		.7						6.4	10.3
NNW	2.8		.7	.7								4.3	5.7
VARBL													
CALM												19.1	
	17.7	28.4	19.1	14.2	.7	.7						100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

141

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77
YEARS

FEB
MONTH

ALL WEATHER
CLASS

07
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	.7	.7	1.4								4.3	7.5
NNE		.7	.7									1.4	5.5
NE	1.4	.7			.7							2.8	7.5
ENE	2.1	.7	.7									3.5	4.2
E	1.4	3.5	2.8	.7								8.5	6.1
ESE		3.5	.7	.7								5.0	6.4
SE		2.1										2.1	4.0
SSE	.7	2.8		1.4								5.0	6.4
S	2.1	3.5	2.1		.7							8.5	5.9
SSW	.7	2.1		.7								3.5	7.4
SW	2.1	1.4	.7	.7								5.0	5.0
WSW	1.4		1.4	.7								3.5	7.2
W	2.8	5.0	2.1									9.9	4.9
WNW	.7	2.1	3.5	1.4	.7							8.5	8.9
NW	.7	1.4	1.4	1.4	1.4							6.4	9.9
NNW		1.4	.7	.7								2.8	7.5
VARBL													
CALM												19.1	
	17.7	31.9	17.7	9.9	3.5							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

141

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93117

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

FEB

MONTH

ALL WEATHER

CLASS

10

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.4	2.8		1.4								5.7	5.9
NNE	.7		.7									1.4	4.5
NE	1.4	1.4										2.8	4.3
ENE	2.8	.7										4.3	6.5
E	.7	3.5	7.1	.7		.7						12.1	7.2
ESE	.7	2.1	.7	.7								4.3	6.3
SE			.7									.7	10.0
SSE		2.1	.7	.7								3.5	7.6
S	.7	5.7	1.4	.7								8.5	6.8
SSW	1.4	1.4	2.1	.7								5.7	6.4
SW	.7	.7										1.4	3.5
WSW	1.4	2.8	.7	.7								5.7	5.3
W	2.1	1.4	3.5	2.1								9.2	7.8
WNW		2.8	3.5	3.5								9.9	9.6
NW	1.4	2.8	1.4	3.5	.7							9.9	9.0
NNW	2.1	2.1	2.1	1.4								7.8	6.6
VARBL													
CALM												7.1	
	17.7	32.6	24.8	16.3	.7	.7						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

141

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

0000

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

YEARS

FEB
MONTH

ALL WEATHER
CLASS

13
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

0000

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	5.0	4.3										9.2	3.5
NNE		.7										.7	4.0
NE	.7											.7	2.0
ENE	.7	.7	.7		.7							2.8	8.0
E		1.4	1.4	1.4								4.3	9.2
ESE		2.1	1.4									3.5	5.6
SE		1.4		.7								2.1	7.3
SSE		1.4	.7									2.1	6.7
S		2.8	2.8	1.4								7.1	8.1
SSW	2.1	4.3	1.4	1.4								9.2	6.0
SW	.7	3.5	2.1	1.4								7.8	6.6
WSW	.7	1.4	2.1	.7								5.0	6.9
W	2.1	4.3	4.3	2.8	.7	.7						14.9	8.6
WNW		3.5	4.3	5.0	.7	.7						14.2	10.6
NW	2.1	2.8	2.1	2.1								9.2	7.5
NNW		2.1	2.8	.7	.7							6.4	8.8
VARBL													
CALM												.7	
	14.2	36.9	26.2	17.7	2.8	1.4						100.0	7.5

TOTAL NUMBER OF OBSERVATIONS

141

0000

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

2

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

FEB
MONTH

ALL WEATHER
CLASS

16
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.1	2.1	.7	.7								5.7	5.8
NNE	.7	.7										1.4	4.0
NE		.7										.7	4.0
ENE													
E	.7	.7	1.4									2.8	5.8
ESE		.7	1.4									2.1	7.3
SE					.7							.7	20.0
SSE		.7										.7	4.0
S		1.4	2.1	1.4								5.0	8.9
SSW	2.1	3.5	2.8	1.4								9.9	6.6
SW	2.8	1.4	3.5	.7								8.5	6.4
WSW	.7	4.3	2.8									7.8	6.3
W	3.5	5.0	5.7	2.8		.7						17.7	7.8
WNW		4.3	3.5	7.1		1.4						16.3	10.8
NW		4.3	3.5	2.1	1.4							11.3	9.2
NNW	.7	5.7	1.4									7.8	5.5
VARBL													
CALM												1.4	
	13.5	35.5	29.1	16.3	2.1	2.1						100.0	7.6

TOTAL NUMBER OF OBSERVATIONS

141

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

1100

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

YEARS

FEB
MONTH

ALL WEATHER
CLASS

19
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

0800

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.1											2.1	1.7
NNE		.7		.7								1.4	8.5
NE													
ENE	.7											.7	2.0
E	.7		1.4									2.1	6.0
ESE		1.4	1.4									2.8	6.5
SE	.7		.7									1.4	6.5
SSE	.7	.7										1.4	3.0
S	1.4	2.8	2.8	.7								7.8	7.2
SSW	1.4	2.8	.7									5.0	4.3
SW	2.8	3.5	.7	.7								7.8	4.9
WSW	1.4	2.8	2.1									6.4	5.2
W	2.1	9.2	5.0	.7								17.0	5.9
WNW	2.1	1.4	5.0	3.5	2.8							14.9	10.1
NW	1.4	2.1	5.0	.7	.7							9.9	7.9
NNW	.7	1.4		.7								2.8	5.0
VARBL													
CALM												16.3	
	18.4	29.1	24.8	7.8	3.5							100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

141

0800

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93117

STATION NAME
SAN CLEMENTE, CALIFORNIA

YEARS
73-77

MONTH
FEB

CLASS
ALL WEATHER

HOURS (L.S.T.)
22

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7		.7		.7							2.1	9.0
NNE		.7										.7	4.0
NE		1.4	.7									2.1	6.3
ENE		.7										.7	6.0
E	1.4	.7	.7									2.8	4.0
ESE		.7	2.1	.7								3.5	9.0
SE	1.4	2.1	1.4									5.0	5.1
SSE				.7								.7	14.0
S		3.5	1.4	2.1								7.1	8.0
SSW	3.5	2.8		.7								7.1	4.9
SW	.7	1.4		.7								2.8	5.5
WSW	1.4	5.0	.7									7.1	5.1
W	2.8	2.8	2.1	1.4								9.2	5.8
WNW	2.1	4.3	8.5	2.1		1.4						18.4	8.6
NW	1.4	5.0	.7	2.8	1.4							11.3	8.4
NNW	.7	1.4										2.1	3.3
VARBL													
CALM												17.0	
	16.3	32.6	19.1	11.3	2.1	1.4						100.0	5.8

TOTAL NUMBER OF OBSERVATIONS

141

FD 2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

FEB

MOUTH

ALL WEATHER

CLASS

ALL

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	1.4	.4	.5	.2							4.5	5.5
NNE	.4	.6	.2	.1								1.2	4.8
NE	.7	.6	.1		.1							1.5	4.8
ENE	.9	.5	.3		.1	.1						1.9	5.8
E	.6	1.8	2.6	.7								5.7	7.1
ESE	.1	1.8	1.5	.5								3.9	7.3
SE	.6	1.0	.6	.1	.1							2.4	6.0
SSE	.4	1.1	.2	.4								2.0	6.2
S	1.1	3.6	2.0	1.0	.4							8.0	7.3
SSW	1.7	2.6	1.1	.6								5.9	5.8
SW	1.7	1.9	1.2	.7								5.5	5.7
WSW	1.2	2.5	1.3	.4								5.3	5.8
W	2.4	4.3	3.6	1.4	.2	.2						12.1	6.9
WNW	1.1	3.4	4.5	3.5	.5	.5						13.6	9.3
NW	1.2	2.6	2.3	2.2	.7	.1						9.0	8.8
NNW	1.0	2.0	1.0	.6	.1							4.7	6.3
VARBL													
CALM												12.8	
	16.8	31.6	22.9	12.8	2.3	.9						100.0	6.2

TOTAL NUMBER OF OBSERVATIONS

1128

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

2

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93117

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

MAR
MONTH

ALL WEATHER
CLASS

01
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.9	1.9									3.9	7.2
NNE	1.3		.6									1.9	3.7
NE			.6									.6	10.0
ENE													
E		1.3		.6								1.9	7.7
ESE	.6											.6	1.0
SE	.6											.6	3.0
SSE	1.3											1.3	2.0
S	2.6	.6	.6	1.3	.6							5.8	7.6
SSW	1.9	2.6	.6	.6								5.8	5.1
SW	1.9	1.9	1.3	.6								5.8	5.4
WSW	2.6	1.9	.6									5.2	4.4
W	1.3	6.5	7.1	6.5		.6						21.9	8.8
WNW	3.9	3.2	4.5	5.5	1.9	.6						20.6	9.8
NW	.6	1.9	2.6	2.6	.6							8.4	9.5
NNW	.6	1.9		.6								3.2	6.2
VARBL													
CALM												12.3	
	19.4	23.9	20.6	19.4	3.2	1.3						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

MAR
MONTH

ALL WEATHER
CLASS

04
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.6	.6									1.3	6.0
NNE	.6				.6							1.3	9.5
NE	.6			1.3								1.9	9.7
ENE	.6	.6										1.3	3.5
E	2.6	.6										3.2	2.6
ESE	.6											.6	2.0
SE		.6										.6	4.0
SSE	2.6	1.3										3.9	3.2
S	2.6	1.9	1.3	.6								6.5	5.4
SSW	1.3	1.9		.6								3.9	5.7
SW	1.3	.6	.6	1.3	.6							4.5	9.0
WSW	1.3	1.3	.6	.6								3.9	5.7
W	3.9	4.5	2.6	3.2	.6							14.8	7.4
WNW	3.2	4.5	4.5	8.4	.6							21.3	9.1
NW	.6	2.6	2.6	2.6	1.3	1.3						11.0	12.0
NNW	.6	3.2	1.3	.6								5.8	6.4
VARBL													
CALM												14.2	
	22.6	24.5	14.2	19.4	3.9	1.3						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

2

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93117

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

MONTH
MAR

ALL WEATHER
CLASS

HOURS (L.S.T.)
07

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			1.3									1.3	7.5
NNE													
NE		1.3		.6								1.9	8.3
ENE	.6	.6		.6								2.6	8.8
E			.6									.6	9.0
ESE	.6	.6	1.9									3.2	6.4
SE	.6		.6									1.3	5.5
SSE	1.3											1.3	2.0
S	2.6	3.2	.6	.6								7.1	5.2
SSW	1.3	.6	1.3	1.3								4.5	7.3
SW		1.3	1.3									2.6	6.8
WSW	2.6	1.9	.6									5.2	3.9
W	.6	5.2	3.2	4.5								13.5	8.5
WNW	1.3	3.9	4.5	7.1	1.9	1.3						20.0	10.6
NW	2.6	2.6	2.6	3.9								11.6	7.9
NNW	.6	1.3	1.9	1.9	.6							6.5	9.3
VARBL													
CALM												16.8	
	14.8	22.6	20.6	20.6	3.2	1.3						100.0	6.7

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

0000

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

MAR
MONTH

ALL WEATHER
CLASS

10
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

0000

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.6	2.6	1.3	.6								7.1	5.2
NNE		1.3			.6							1.9	8.3
NE		.6										.6	5.0
ENE	.6		1.3		.6							2.6	9.0
E	1.9	1.9										3.9	4.0
ESE			.6									.6	9.0
SE	.6	.6	1.3		.6							3.2	8.0
SSE				.6								.6	11.0
S	1.3	1.3		1.9	.6							5.2	9.4
SSW	.6	.6	1.3									2.6	5.5
SW	.6	4.5	1.3	.6								7.1	6.1
WSW		1.9	3.2	.6								5.8	7.2
W	1.9	3.9	9.7	3.9	2.6							21.9	9.6
WNW		2.6	5.2	4.5	2.6	.6						15.5	11.5
NW	1.3	3.2	3.9	3.2	.6							12.3	8.6
NNW	1.3	1.3	2.6	.6								5.8	6.6
VARBL													
CALM												3.2	
	12.9	26.5	31.6	16.8	8.4	.6						100.0	8.1

TOTAL NUMBER OF OBSERVATIONS

155

0000

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93117

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

MAR
MORTH

ALL WEATHER

CLASS

13

HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.6	.6	1.3								5.2	6.3
NNE													
NE		.6		.6								1.3	8.5
ENE													
E	.6	.6										1.3	3.0
ESE	.6	.6		.6								1.9	7.3
SE													
SSE													
S	.6		.6	1.3	.6							3.2	10.6
SSW	1.3	3.9	1.9	.6								7.7	5.6
SW	.6	3.2	.6									4.5	5.3
WSW	.6	2.6	3.2									6.3	6.3
W	1.3	3.9	14.2	7.7	1.3	.6						29.0	9.8
WNW		2.6	8.4	7.1	5.2							23.2	11.6
NW		3.2	3.2	1.3	.6							8.4	8.8
NNW	1.3	1.3	3.2	.6								6.5	7.2
VARBL													
CALM												1.3	
	7.7	25.2	36.1	21.3	7.7	.6						100.0	8.8

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

0000

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

MAR
MONTH

ALL WEATHER
CLASS

16
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

0000

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.3	1.3									3.2	5.2
NNE													
NE													
ENE													
E		.6	.6									1.3	6.0
ESE													
SE				.6								.6	13.0
SSE		.6										.6	4.0
S				1.3	.6							1.9	16.0
SSW	1.3	1.3	1.3									3.9	5.2
SW		.6	4.5									5.2	7.8
WSW		2.6	5.2	.6								8.4	7.4
W	3.2	4.5	11.0	9.7	.6	2.6						31.6	10.6
WNW	3.2	3.9	9.0	6.5	3.2							25.8	9.9
NW	.6	1.3	5.2	4.5	.6	.6						12.9	10.5
NNW	.6		1.9									2.6	6.0
VARBL													
CALM												1.9	
	9.7	16.8	40.0	23.2	5.2	3.2						100.0	9.3

TOTAL NUMBER OF OBSERVATIONS

155

0000

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

NAK
MONTH

ALL WEATHER
CLASS

19
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.6										.6	4.0
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE				.6									
S	.6	.6		.6	.6							.6	15.0
SSW		2.6	1.3									2.6	9.5
SW	1.3	1.3	1.9	.6	.6							4.5	7.6
WSW	3.2	5.2	.6									5.2	6.8
W	4.5	4.5	10.3	9.0	.6	1.3						9.0	4.2
WNW	1.9	3.2	7.1	10.3	1.3	.6						30.3	9.2
NW	.6	4.5	4.5	3.2	.6							24.5	10.9
NNW	1.3	1.3	1.3	.6	.6							9.0	11.1
VARBL												5.2	7.6
CALM												8.4	
	13.5	19.4	27.1	25.2	4.5	1.9						100.0	8.3

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93117

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

MAR

MONTH

ALL WEATHER

CLASS

22

HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			1.3									1.3	6.5
NNE	.6	.6										1.3	3.0
NE	.6											.6	2.0
ENE													
E		.6	.6									1.3	6.5
ESE													
SE		1.3										1.3	4.5
SSE		.6		.6								1.3	9.5
S	1.3	1.3	1.3	.6	.6							5.2	8.3
SSW	3.9	1.3	.6									5.8	3.8
SW	1.3	.6	.6									2.6	4.8
WSW	1.3	1.3	.6									3.2	3.8
W	2.6	7.1	9.7	5.8								25.2	7.6
WNW	3.9	3.9	8.4	8.4	1.9	.6						27.1	10.1
NW	3.9	3.9	1.9	2.6	1.9							10.3	10.6
NNW		1.3	2.6	.6	.6							5.8	8.8
VARBL													
CALM												7.7	
	15.5	24.5	27.7	18.7	5.2	.6						100.0	7.6

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

MAR
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	1.2	1.0	.2								3.0	6.1
NNE	.3	.2	.1	.2								.8	6.1
NE	.2	.3	.1	.3								.9	8.0
ENE	.2	.2	.2	.1	.2							.8	7.8
E	.6	.7	.2	.1								1.7	4.8
ESE	.3	.2	.3	.1								.9	6.0
SE	.2	.3	.2	.1	.1							1.0	6.7
SSE	.6	.3	.2	.2								1.2	5.1
S	1.5	1.1	.6	1.0	.3							4.7	7.9
SSW	1.5	1.9	1.0	.4	.1							4.8	5.6
SW	.9	1.8	1.5	.4	.1							4.7	6.5
WSW	1.5	2.3	1.9	.2								5.9	5.5
W	2.4	5.0	8.5	6.3	.7	.6						23.5	9.1
WNW	2.2	3.5	6.5	7.3	2.3	.5						22.3	10.4
NW	.8	2.3	3.3	3.0	.8	.2						10.5	9.9
NNW	.8	1.5	1.9	.7	.2							5.2	7.5
VARBL													
CALM												8.2	
	14.5	22.9	27.3	20.6	5.2	1.4						100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

1240

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

APR
MONTH

ALL WEATHER
CLASS

01
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7											.7	3.0
NNE	.7											.7	2.0
NE													
ENE													
E	1.3		.7									2.0	4.3
ESE													
SE	1.3											1.3	2.5
SSE	3.3											3.3	1.4
S	3.3	4.7										8.0	3.8
SSW	.7	2.7										3.3	4.4
SW		3.3	1.3									4.7	5.7
WSW	3.3	7.3		.7								11.3	4.3
W	5.3	6.7	7.3	1.3	.7							23.3	6.4
WNW	.7	5.3	7.3	7.3	.7	1.3						22.7	9.9
NW	.7	1.3	2.0	2.7	1.3							8.0	11.2
NNW		2.0										2.0	4.3
VARBL													
CALM												6.7	
	21.3	35.3	18.7	12.0	2.7	1.3						100.0	6.1

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

YEARS

APR
MONTH

ALL WEATHER
CLASS

04
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE		1.3										1.3	4.0
NE													
ENE	2.0											2.0	3.0
E	2.7	.7										3.3	3.4
ESE	.7											.7	1.0
SE													
SSE		.7										.7	5.0
S	2.0	2.0	1.3									5.3	4.3
SSW	1.3	.7	1.3									3.3	5.2
SW	.7	2.7										3.3	4.2
WSW	3.3	2.7	.7									6.7	3.9
W	1.3	10.7	4.7	1.3	.7							18.7	6.5
WNW	1.3	6.7	6.0	4.7		1.3						20.0	9.4
NW	.7	3.3	2.0	3.3	.7							10.0	9.7
NNW	.7	1.3	.7									2.7	4.5
VARBL													
CALM												22.0	
	16.7	32.7	16.7	9.3	1.3	1.3						100.0	5.2

TOTAL NUMBER OF OBSERVATIONS

150

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

APR
MONTH

07

HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.7										2.0	2.7
NNE		.7										.7	5.0
NE	1.3			.7								2.0	6.0
ENE	1.3	.7	.7									2.7	4.3
E	.7	2.7	.7									4.0	5.5
ESE	.7		.7	.7								2.0	8.0
SE													
SSE	.7		.7									1.3	4.0
S	2.0	6.7	.7									9.3	4.2
SSW	.7	2.7	.7									4.0	4.7
SW	2.0	2.0										4.0	3.7
WSW	.7	2.7	.7									4.0	4.8
W	3.3	5.3	4.7	1.3								14.7	6.5
WNW	3.3	2.7	4.7	7.3	2.0	.7						20.7	10.0
NW	.7	3.3	2.0	4.7	.7							11.3	9.7
NNW		.7	1.3	.7								2.7	9.3
VARBL													
CALM												14.7	
	18.7	30.7	17.3	15.3	2.7	.7						100.0	6.0

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

APR

MONTH

ALL WEATHER
CLASS

10

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	.7										2.7	3.3
NNE	1.3	.7										2.0	3.0
NE	.7	.7		.7	.7							2.7	9.8
ENE		1.3										1.3	4.0
E		.7	1.3	.7								2.7	8.8
ESE													
SE													
SSE			.7									.7	8.0
S	2.0	.7	1.3	.7								4.7	6.0
SSW	.7	8.7	1.3									10.7	4.6
SW	2.7	2.7	1.3									6.7	5.1
WSW	2.0	2.7	2.0									6.7	5.2
W	4.0	8.0	5.3	2.7								20.0	6.4
WNW	.7	1.3	5.3	6.7	2.7							16.7	11.6
NW		2.7	5.3	5.3	1.3							14.7	11.0
NNW	2.7	2.7	.7									6.0	4.6
VARBL													
CALM												2.0	
	18.7	33.3	24.7	16.7	4.7							100.0	7.3

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

2

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

APR
MONTH

ALL WEATHER
CLASS

13
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.3										2.7	4.0
NNE													
NE		.7		.7								1.3	9.0
ENE			.7									.7	10.0
E													
ESE				.7								.7	11.0
SE													
SSE													
S		.7	2.0									2.7	7.3
SSW	1.3	3.3	2.7	1.3								8.7	7.0
SW	.7	6.0	5.3									12.0	6.4
WSW	.7	2.7	3.3									6.7	6.0
W	2.0	7.3	14.0	3.3	.7							27.3	8.1
WNW		.7	6.7	6.0	3.3							16.7	12.3
NW		3.3	5.3	4.0	.7							13.3	10.3
NNW	2.0	3.3	2.0									7.3	5.1
VARBL													
CALM												.0	
	8.0	29.3	42.0	16.0	4.7							100.0	8.4

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77
YEARS

APR
MONTH

ALL WEATHER
CLASS

16
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		2.0										2.0	5.3
NNE		.7										.7	4.0
NE				.7								.7	12.0
ENE													
E													
ESE				.7								.7	11.0
SE													
SSE													
S		.7	.7									1.3	8.0
SSW		1.3	2.7									4.0	7.3
SW	.7	4.7	3.3	1.3								10.0	6.8
WSW	.7	6.7	6.7									14.0	6.5
W	1.3	6.7	18.7	9.3	.7							36.7	9.0
WNW		3.3	8.0	8.0	4.0	1.3						24.7	12.4
NW			1.3	1.3	.7							3.3	13.0
NNW	.7		1.3									2.0	6.7
VARL													
CALM												.0	
	3.3	26.0	42.7	21.3	5.3	1.3						100.0	9.2

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

APR
MONTH

ALL WEATHER
CLASS

19
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE				.7								.7	12.0
E				.7								.7	11.0
ESE													
SE													
SSE													
S	.7	2.0										2.7	4.0
SSW	1.3	2.0	.7									4.0	5.2
SW	4.0	2.0	1.3									7.3	4.0
WSW	4.7	7.3	4.7									16.7	5.2
W	1.3	11.3	12.7	3.3	.7							29.3	7.5
WNW	2.0	5.3	10.0	6.7	2.0	2.0	.7					30.7	10.8
NW	.7	1.3	2.0	2.7								6.7	9.4
NNW	.7											.7	3.0
VARBL													
CALM												.7	
	15.3	31.3	31.3	16.0	2.7	2.0	.7					100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77
YEARS

APR
MONTH

ALL WEATHER
CLASS

22
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N												.7	4.0
NNE		.7										.7	2.0
NE												2.0	5.7
ENE	.7											.7	4.0
E	1.3			.7								.7	5.0
ESE												.7	4.0
SE		.7										.7	5.0
SSE		.7										.7	4.0
S	1.3	2.7	.7									.7	4.0
SSW	2.0	1.3	2.0									.7	4.0
SW	3.3	.7	.7	.7								.7	4.0
WSW	.7	6.0	.7	.7								.7	4.0
W	4.7	14.0	8.0	2.7								.7	4.0
WNW	.7	6.7	6.7	6.7	1.3	.7	.7					.7	4.0
NW		1.3	3.3	2.7		.7						.7	4.0
NNW	.7	2.0										.7	4.0
VARBL												.7	4.0
CALM												.7	4.0
	15.3	36.7	22.0	14.0	1.3	1.3	.7					100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93117

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

APR

MONTH

ALL WEATHER

CLASS

ALL

MOORE (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

1000

TOTAL NUMBER OF OBSERVATIONS

1200

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.6										1.2	3.7
NNE	.2	.5										.7	3.6
NE	.2	.2		.3	.1							.8	8.7
ENE	.5	.2	.2	.1								1.0	4.8
E	.7	.5	.3	.2								1.8	5.7
ESE	.2		.1	.2								.5	7.8
SE	.2	.1										.2	3.0
SSE	.5	.2	.2									.8	3.3
S	1.4	2.5	.8	.1								4.8	4.7
SSW	1.0	2.8	1.4	.2								5.4	5.4
SW	1.7	3.0	1.7	.2								6.7	5.4
WSW	2.0	4.7	2.3	.2								9.2	5.3
W	2.9	9.0	9.4	3.2	.4							24.9	7.2
WNW	1.1	4.0	6.8	6.9	2.0	.9	.2					21.9	10.8
NW	.3	2.1	2.9	3.3	.7	.1						9.4	10.4
NNW	.9	1.5	.7	.1								3.2	5.3
VARBL													
CALM												7.1	
	14.7	31.9	26.9	15.1	3.2	1.0	.2					100.0	7.1

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93117

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

MAY

MONTH

ALL WEATHER

CLASS

01

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.6	.6	.6								3.2	6.0
NNE		.6	.6									1.3	7.5
NE													
ENE													
E		1.9										1.9	4.0
ESE													
SE	1.3											1.3	2.5
SSE	1.3	1.3										2.6	3.6
S	2.6	5.2	1.9									9.7	5.1
SSW	2.6	3.2	.6	.6								7.1	5.1
SW	3.9	1.9										5.3	3.3
WSW	5.2	5.2	1.9									12.3	4.1
W	1.9	13.5	6.5	3.2								25.2	6.8
WNW	2.6	6.5	3.9	2.6		.6						16.1	7.2
NW	.6	.6	1.3									2.6	6.3
NNW													
VARBL													
CALM												11.0	
	23.2	40.6	17.4	7.1		.6						100.0	5.1

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

MAY
MONTH

ALL WEATHER
CLASS

04
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.3		.6								1.9	6.7
NNE													
NE		1.3										1.3	5.0
ENE		1.3										1.3	4.5
E	.6											.6	3.0
ESE													
SE	1.3											1.3	2.0
SSE	3.9											3.9	2.5
S	4.5	3.2										7.7	3.3
SSW	1.9	1.3	.6									3.9	3.8
SW	1.3	2.6	1.3									5.2	4.5
WSW		6.5	1.3									7.7	5.7
W	5.8	5.2	5.8	2.6	.6							20.0	7.0
WNW	4.5	4.5	5.2	.6	.6							15.5	6.1
NW		1.9	1.3	1.9								5.2	9.0
NNW	.6	1.3	.6									2.6	5.3
VARBL													
CALM												21.9	
	24.5	30.3	16.1	5.8	1.3							100.0	4.4

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

MAY
MONTH

07
HOURS (L.S.T.)

ALL WEATHER
CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.6										.6	4.0
NNE	.6											.6	2.0
NE	.6											.6	3.0
ENE		1.3										1.3	4.0
E	.6	3.9										4.5	4.7
ESE	1.3	1.9										3.2	3.6
SE		.6										.6	4.0
SSE	.6	.6		.6								1.9	7.7
S	1.3	2.6										3.9	3.5
SSW	2.6	4.5	.6									7.7	4.3
SW	2.6	3.2	.6									6.5	3.9
WSW		4.5	.6									5.2	5.0
W	3.9	8.4	7.7	1.3	1.3							22.6	6.8
WNW		9.7	4.5	.6		.6						15.5	7.0
NW	.6	3.9	3.9	1.3	.6							6.5	10.2
NNW	2.6	1.3	.6									4.5	4.0
VARBL													
CALM												14.2	
	16.8	43.9	18.7	3.9	1.9	.6						100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

155

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

YEARS

MAY

MONTH

ALL WEATHER

CLASS

10

HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.9										2.6	3.8
NNE		1.3										1.3	4.5
NE		1.3										1.3	4.5
ENE		.6										.6	4.0
E		.6	.6									1.3	6.0
ESE		1.3										1.3	4.5
SE													
SSE													
S	1.9	2.6	.6	.6								5.8	5.9
SSW	1.3	7.7	1.9									11.0	5.4
SW	4.5	7.7	1.9									14.2	4.2
WSW	1.3	7.1	3.2	.6								12.3	6.3
W	2.6	5.8	9.0	1.9	.6	.6						20.0	7.3
WNW	1.3	3.2	7.7	.6	1.9	.6						15.5	9.0
NW		1.3	5.2									6.3	7.7
NNW	.6	2.6	.6									3.9	5.5
VARBL													
CALM												2.6	
	14.2	45.2	31.0	3.9	1.9	1.3						100.0	6.2

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

MAY
MONTH

ALL WEATHER
CLASS

13
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.3	1.3	.6								3.9	7.0
NNE		.6										.6	4.0
NE			.6									.6	8.0
ENE													
E													
ESE													
SE													
SSE													
S	.6	3.2	1.9	.6								6.5	6.9
SSW	.6	3.9	6.4			.6						13.5	7.4
SW		2.6	3.9	.6								7.1	7.8
WSW		5.2	5.8	1.9								12.9	7.8
W	.6	5.8	21.3	3.9								31.6	6.2
WNW	.6	2.6	7.1	2.6	1.3	1.3						15.5	10.5
NW	.6	.6	.6									1.9	5.7
NNW	.6	2.6	1.9									5.2	6.0
VARBL													
CALM												.6	
	4.5	28.4	52.9	10.3	1.3	1.9						100.0	8.0

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

MAY
MONTH

ALL WEATHER
CLASS

16
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.6	1.9									2.6	7.8
NNE		.6	.6	.6								1.9	10.0
NE													
ENE													
E													
ESE													
SE			.6									.6	7.0
SSE													
S	.6	1.9	1.3	1.3								5.2	7.8
SSW	.6		3.9	.6								5.2	8.1
SW	.6	2.6	3.9	.6								7.7	7.2
WSW		6.5	7.1	1.3								14.8	7.1
W		7.7	21.3	7.7	.6							37.4	9.0
WNW	1.3	2.6	6.5	9.0	1.3	.6	.6					21.9	11.5
NW			.6									.6	9.0
NNW			1.9									1.9	8.0
VARBL													
CALM												.0	
	3.2	22.6	49.7	21.3	1.9	.6	.6					100.0	9.0

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

MAY

MONTH

ALL WEATHER

CLASS

19

HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3		1.3	1.3								3.9	8.2
NNE													
NE													
ENE	.6											.6	2.0
E	.6											.6	3.0
ESE													
SE													
SSE			.6									.6	9.0
S	1.9	.6	3.2	.6								6.5	6.6
SSW	1.3	1.9										3.2	3.8
SW	1.9	3.2	2.6									7.7	5.0
WSW	.6	4.5	3.2									8.4	5.5
W	1.9	12.9	19.4	7.1								41.3	7.8
WNW	.6	5.8	8.4	3.2	2.6							20.6	9.4
NW		1.3	.6	.6								2.6	8.3
NNW		.6										.6	6.0
VARBL													
CALM												3.2	
	11.0	31.0	39.4	12.9	2.6							100.0	7.2

TOTAL NUMBER OF OBSERVATIONS

155

AD-A062 041

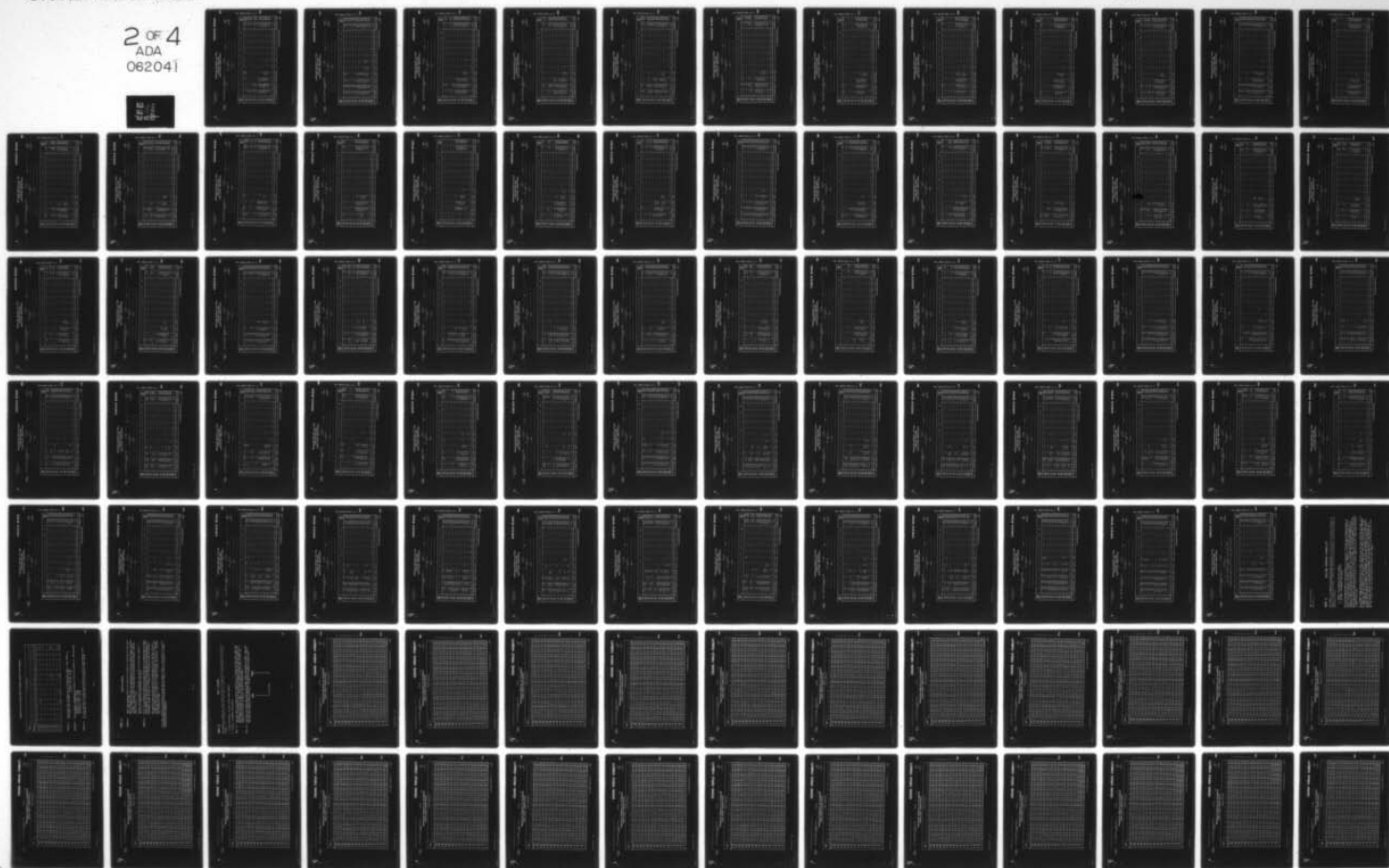
NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C
SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE (SMOS), SAN CLE--ETC(U)
JUL 78

F/G 4/2

UNCLASSIFIED

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2 OF 4
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NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

MAY
MONTH

ALL WEATHER
CLASS

22
HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			.6	1.3								1.9	11.0
NNE				.6								.6	14.0
NE	.6											.6	3.0
ENE	.6											.6	2.0
E	.6											.6	3.0
ESE													
SE	.6	.6										1.3	3.0
SSE	.6	.6										1.3	3.5
S													
SSW	2.6	.6	1.3									4.5	3.9
SW	3.2	3.9	1.3									6.4	4.0
WSW	1.9	8.4	1.9									12.3	5.1
W	3.9	12.9	9.7	1.9								26.4	6.1
WNW	1.9	4.5	3.9	5.6		.6						16.8	9.0
NW	.6	1.3	1.9	1.3								5.2	7.5
NNW	.6	.6										1.3	3.0
VARBL													
CALM												9.0	
	20.0	38.1	21.3	11.0		.6						100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77
YEARS

MAY
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.8	.7	.6								2.6	7.0
NNE	.1	.4	.2	.2								.8	7.4
NE	.2	.3	.1									.6	4.7
ENE	.2	.4										.6	3.6
E	.3	.8	.1									1.2	4.4
ESE	.2	.4										.6	3.9
SE	.4	.2	.1									.6	3.3
SSE	.8	.3	.1	.1								1.3	4.3
S	1.9	3.0	1.2	.4								6.5	5.4
SSW	1.7	2.9	2.2	.2		.1						7.0	5.6
SW	2.3	3.5	1.9	.2								7.8	5.0
WSW	1.1	6.0	3.1	.5								10.7	5.9
W	2.6	9.0	12.6	3.7	.3	.1						28.3	7.5
WNW	1.6	4.9	5.9	3.1	1.0	.6	.1					17.2	8.9
NW	.2	1.0	1.9	.6	.1							3.9	8.2
NNW	.6	1.1	.7									2.5	5.4
VARB													
CALM												7.8	
	14.7	35.0	30.8	9.5	1.4	.7	.1					100.0	6.3

TOTAL NUMBER OF OBSERVATIONS

1240

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93117

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

JUN
MONTH

ALL WEATHER

CLASS

01

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE		.7										.7	4.0
NE													
ENE													
E	.7											.7	3.0
ESE													
SE		1.3										1.3	4.0
SSE	2.0	.7										2.7	2.5
S	4.0	4.7	2.0									10.7	4.5
SSW	2.7	6.0	.7									9.3	4.6
SW	2.7	2.7	2.0									7.3	5.3
WSW	2.0	4.0	1.3									7.3	4.6
W	2.7	10.0	15.3	.7								28.7	6.5
WNW	3.3	3.3	4.0	2.0		.7						13.3	7.2
NW	.7	1.3	1.3	.7								4.0	7.3
NNW		.7										.7	5.0
VARBL													
CALM												13.3	
	20.7	35.3	26.7	3.3		.7						100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

JUN
MONTH

ALL WEATHER
CLASS

04
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE		.7										.7	6.0
NE													
ENE													
E	.7	1.3											
ESE		.7											
SE		.7											
SSE	1.3	.7	1.3									2.0	3.7
S	4.0	4.7	2.7									.7	4.0
SSW	2.0	3.3										3.3	4.0
SW	1.3	2.0	1.3									11.3	4.5
WSW	3.3	4.7	2.0									5.3	3.8
W	4.7	12.7	10.0	.7								4.7	4.7
WNW	2.0	4.7	3.3	1.3	.7							10.0	4.7
NW	.7	2.0	1.3	.7								28.0	5.8
NNW												12.0	7.4
VARBL												4.7	6.3
CALM												16.7	
	20.0	38.0	22.0	2.7	.7							100.0	4.5

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

JUN
MONTH

ALL WEATHER
CLASS

07
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.3										2.0	4.3
NNE	.7											.7	2.0
NE													
ENE		.7										.7	4.0
E	2.7	2.0	1.3	.7								6.7	5.0
ESE	1.3	2.0										3.3	4.4
SE	.7	.7										1.3	3.0
SSE			.7									.7	7.0
S	1.3	5.3	1.3									8.0	4.4
SSW	2.7	2.0	.7									5.3	3.9
SW	2.7	2.7										5.3	3.9
WSW	1.3	6.7	2.7									10.7	5.2
W	.7	13.3	7.3	2.0								23.3	6.7
WNW	.7	6.0	3.3	2.7								12.7	7.4
NW	3.3	2.7	2.0									8.0	4.5
NNW	.7	.7										1.3	2.5
VARBL													
CALM												10.0	
	19.3	46.0	19.3	5.3								100.0	4.9

TOTAL NUMBER OF OBSERVATIONS

150

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

JUN
MONTH

ALL WEATHER
CLASS

10
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.7	.7									1.3	6.5
NNE													
NE		.7										.7	4.0
ENE		.7										.7	4.0
E		1.3	.7									2.0	6.3
ESE	.7	1.3										2.0	4.3
SE													
SSE													
S	1.3	6.0	.7									8.0	4.6
SSW	2.7	10.7	2.7									16.0	5.2
SW	2.7	4.7	3.3									10.7	5.4
WSW	2.0	6.7	4.7									13.3	5.8
W	2.7	8.0	13.3	4.0								28.0	7.5
WNW		1.3	5.3	1.3								8.0	9.1
NW		2.0	.7	.7								3.3	7.2
NNW	1.3	2.7										4.0	3.8
VARBL													
CALM												2.0	
	13.3	46.7	32.0	6.0								100.0	6.1

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93117

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

JUN

MONTH

ALL WEATHER

CLASS

13

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.7										2.0	3.3
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S	.7	1.3	4.7									6.7	7.2
SSW	2.0	1.3	10.7									14.0	7.4
SW	.7	6.7	4.0	.7								12.0	6.3
WSW	2.0	3.3	8.7									14.0	7.1
W	1.3	8.7	23.3	7.3								40.7	8.5
WNW		.7	6.0	2.7								9.3	9.4
NW		.7		.7								1.3	9.5
NNW													
VARBL													
CALM												.0	
	8.0	23.3	57.3	11.3								100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

JUN

MONTH

ALL WEATHER

CLASS

16

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.7										.7	4.0
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S	.7	.7	2.0	.7								4.0	6.8
SSW	.7	1.3	6.0	.7								8.7	7.5
SW	.7	1.3	8.0	1.3								11.3	6.2
WSW	.7	2.7	7.3									10.7	7.3
W	.7	7.3	27.3	10.7								46.0	8.8
WNW	.7	2.0	3.3	8.7	.7							17.3	10.3
NW			.7									.7	10.0
NNW		.7										.7	4.0
VARBL													
CALM												.0	
	4.0	16.7	56.7	22.0	.7							100.0	8.6

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

JUN
MONTH

ALL WEATHER

CLASS

19

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3											1.3	2.5
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S		3.3	.7									4.0	6.5
SSW	2.0	2.0	2.7									6.7	5.6
SW	3.3	5.3	2.7	.7								12.0	5.2
WSW	.7	3.3	6.7	1.3								12.0	7.5
W	3.3	8.7	18.0	5.3								35.3	8.1
WNW	.7	8.0	10.7	4.7	.7							24.7	8.2
NW		.7	1.3	.7								2.7	9.0
NNW	.7											.7	1.0
VARBL													
CALM												.7	
	12.0	31.3	42.7	12.7	.7							100.0	7.3

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SIOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

JUN
MONTH

ALL WEATHER
CLASS

22
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.7										.7	4.0
NNE													
NE	.7											.7	2.0
ENE		.7										.7	4.0
E	.7											.7	1.0
ESE	.7	.7										1.3	3.5
SE													
SSE	.7	.7										1.3	3.5
S		4.0	1.3									5.3	5.5
SSW	3.3	1.3	3.3									3.0	4.9
SW	1.3	6.0	2.7									10.0	5.6
WSW	1.3	1.3	2.7	.7								6.0	6.7
W	2.7	14.7	13.3	2.0								32.7	6.8
WNW	1.3	6.0	9.3	4.0								20.7	8.2
NW	.7	2.0	.7									3.3	5.2
NNW		.7										.7	4.0
VARBL													
CALM												8.0	
	13.3	38.7	33.3	6.7								100.0	5.9

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION
93117

STATION NAME
SAN CLEMENTE, CALIFORNIA

YEARS
73-77

MONTH
JUN

CLASS
ALL WEATHER

HOURS (L.S.T.)
ALL

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.5	.1									1.0	4.1
NNE	.1	.2										.2	4.0
NE	.1	.1										.2	3.0
ENE		.2										.2	4.0
E	.6	.6	.2	.1								1.5	4.7
ESE	.3	.6										.9	4.2
SE	.1	.3										.4	3.8
SSE	.5	.2	.2									1.0	4.0
S	1.5	3.7	1.9	.1								7.2	5.2
SSW	2.2	3.5	3.3	.1								9.2	5.6
SW	1.9	3.9	3.0	.3								9.2	5.8
WSW	1.7	4.1	4.5	.2								10.5	6.2
W	2.3	10.4	16.0	4.1								52.8	7.5
WNW	1.1	4.0	5.9	3.4	.2	.1						14.7	8.4
NW	.7	1.4	1.0	.4								3.8	6.4
NNW	.3	.7										1.0	3.5
VARBL												6.3	
CALM												100.0	6.3
	13.8	34.5	36.2	8.7	.2	.1							

TOTAL NUMBER OF OBSERVATIONS

1200

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

JUL
MONTH

ALL WEATHER
CLASS

01
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE	.6	1.3										1.9	3.7
S	5.8	6.5	2.6									14.8	4.2
SSW	2.6	7.1	.6									10.3	4.1
SW	4.5	5.8	1.3									11.6	4.1
WSW	1.3	6.4	3.2									12.9	5.0
W	6.5	8.4	7.1	1.3								23.2	5.6
WNW	1.3	3.2	5.8									10.3	6.9
NW	.6	.6										1.3	4.5
NNW													
VARBL													
CALM												13.5	
	23.2	41.3	20.6	1.3								100.0	4.3

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

YEARS

JUL
MONTH

ALL WEATHER
CLASS

04
HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

0000

TOTAL NUMBER OF OBSERVATIONS

155

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6											.6	3.0
NNE													
NE													
ENE			.6									.6	7.0
E	.6	.6										1.3	2.5
ESE	.6	.6										1.3	3.0
SE													
SSE	.6	.6										1.3	3.5
S	5.2	7.1	1.3									13.5	4.0
SSW	3.2	3.2										6.5	3.5
SW	4.5	3.2										7.7	3.5
WSW	5.8	2.6	1.9									10.3	3.9
W	5.6	12.3	10.3	.6								29.0	5.6
WNW	1.3	5.2	1.3									7.7	5.1
NW													
NNW													
VARBL													
CALM												40.0	
	28.4	35.5	15.5	.6								100.0	3.7

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

JUL

MONTH

ALL WEATHER

CLASS

07

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.6										.6	4.0
NNE	1.3											1.3	2.5
NE		.6										.6	4.0
ENE		1.3										1.3	5.0
E	2.6	1.9	.6									5.2	3.9
ESE	.6		.6									1.3	5.5
SE													
SSE	1.3											1.3	2.5
S	7.1	1.9										9.0	3.1
SSW	2.6	5.8	.6									9.0	4.1
SW	5.8	3.2										9.0	3.4
WSW	7.1	7.7	2.6									17.4	4.3
W	3.2	9.7	6.5	.6								20.0	5.5
WNW	.6	5.2	1.9	.6								8.4	5.9
NW		.6										.6	6.0
NNW	1.3	.6										1.9	3.3
VARBL													
CALM												12.9	
	33.5	39.4	12.9	1.3								100.0	3.9

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93117

SAN CLEMENTE, CALIFORNIA

73-77

YEARS

MONTH
JUL

ALL WEATHER
CLASS

HOURS (L.S.T.)
10

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	4.5		.6								6.5	4.6
NNE	1.9		.6									2.6	3.5
NE	.6											.6	3.0
ENE													
E		1.3	.6									1.9	6.0
ESE													
SE	.6		.6									1.3	4.0
SSE													
S	.6	4.5	2.6									7.7	5.7
SSW	3.2	9.0	3.9	.6								16.6	5.2
SW	1.3	8.4	4.5									14.2	5.5
WSW	3.2	4.5	2.6									10.3	5.1
W	3.2	11.0	7.1	1.3								22.6	6.3
WNW	1.3	3.9	2.6									7.7	5.5
NW	.6	1.9	.6									3.2	5.8
NNW	2.6	.6										3.2	3.2
VARBL													
CALM												1.3	
	20.6	49.7	25.8	2.6								100.0	5.3

TOTAL NUMBER OF OBSERVATIONS

155

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

0000

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

JUL
MONTH

ALL WEATHER
CLASS

13
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

0000

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6											.6	3.0
NNE				.6								.6	7.0
NE													
ENE													
E													
ESE													
SE													
SSE													
S		1.9	3.9									5.8	7.3
SSW	.6	3.2	5.8	.6								10.3	7.3
SW		12.3	11.0									23.2	6.4
WSW	1.9	10.3	7.1	1.3								20.6	6.4
W	1.3	8.4	15.5	3.2								28.4	8.0
WNW		3.2	1.3	1.3								5.8	8.1
NW		.6	1.3	.6								2.6	8.5
NNW		1.3	.6									1.9	6.0
VARBL													
CALM												.0	
	4.5	41.3	47.1	7.1								100.0	7.1

TOTAL NUMBER OF OBSERVATIONS

155

0000

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77
YEARS

JUL
MONTH

ALL WEATHER
CLASS

16
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S		1.3	.6	.6								2.6	7.8
SSW		4.5	7.1									11.6	7.0
SW	.6	7.7	5.8									14.2	6.4
WSW		7.7	10.3	2.6								20.6	8.0
W		7.1	21.3	9.7	.6							38.7	9.1
WNW			7.7	1.9	.6							10.3	9.8
NW		1.3										1.3	5.5
NNW													
VARBL													
CALM												.6	
	.6	29.7	52.9	14.8	1.3							100.0	8.1

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

JUL
MONTH

19

HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6											.6	2.0
NNE													
NE													
ENE													
E		.6										.6	6.0
ESE													
SE													
SSE													
S	3.2	.6	1.3									5.2	3.9
SSW	1.9		1.3	.6								3.9	5.8
SW	1.9	1.9	2.6									6.5	5.6
WSW	4.5	7.1	5.8									17.4	5.1
W	1.3	18.7	18.7	9.0								47.7	7.6
WNW		5.2	4.5	1.3	1.3							12.3	8.4
NW	.6	.6	1.3									2.6	5.8
NNW	.6											.6	3.0
VARBL													
CALM												2.6	
	14.8	34.8	35.5	11.0	1.3							100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93117

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

MONTH
JUL

CLASS
ALL WEATHER

HOURS (L.S.T.)
22

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.6										.6	4.0
NNE													
NE													
ENE	.6											.6	2.0
E													
ESE	.6											.6	3.0
SE													
SSE	.6											.6	1.0
S	3.2	2.6	1.3									7.1	4.0
SSW	1.3	.6	1.3									3.2	4.6
SW	5.2	5.2	1.9									12.3	4.2
WSW	4.5	7.1										11.6	3.6
W	5.2	18.7	16.1	1.3								41.3	6.4
WNW	.6	1.3	2.6	1.3								5.8	7.7
NW	.6		1.3									1.9	7.3
NNW		.6										.6	6.0
VARBL													
CALM												13.5	
	22.6	36.8	24.5	2.6								100.0	4.7

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

JUL

NORTH

ALL WEATHER

CLASS

ALL

HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.7		.1								1.2	4.1
NNE	.4		.2									.6	3.7
NE	.1	.1										.2	3.5
ENE	.1	.2	.1									.3	4.8
E	.4	.6	.2									1.1	4.3
ESE	.2	.1	.1									.4	4.0
SE	.1	.1	.1									.2	4.0
SSE	.4	.2										.6	3.0
S	3.1	3.3	1.7	.1								8.2	4.5
SSW	1.9	4.2	2.6	.2								9.0	5.3
SW	3.0	6.0	3.4									12.3	5.2
WSW	3.5	6.9	4.2	.5								15.2	5.4
W	3.3	11.8	12.8	3.4	.1							21.4	7.0
WNW	.6	3.4	3.5	.8	.2							8.5	7.3
NW	.3	.7	.6	.1								1.7	6.4
NNW	.6	.4	.1									1.0	4.1
VARBL													
CALM												8.1	
	18.5	38.5	29.4	5.2	.3							100.0	5.5

TOTAL NUMBER OF OBSERVATIONS

1240

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93117

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

AUG

MONTH

ALL WEATHER
CLASS

01

HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6											.6	1.0
NNE													
NE	.6											.6	2.0
ENE													
E		.6										.6	4.0
ESE		.6										.6	4.0
SE		.6										.6	5.0
SSE	.6	.6										1.3	3.5
S	6.5	1.3										7.7	2.7
SSW	3.2	2.6	.6									6.5	3.7
SW	2.6	1.9	1.3									5.8	4.0
WSW	6.5	5.2	.6									12.3	4.1
W	9.0	16.8	7.7	.6								34.2	5.2
WNW	2.6	9.0	5.2									16.8	5.7
NW	.6	.6										1.3	4.5
NNW													
VARBL													
CALM												11.0	
	32.9	40.0	15.5	.6								100.0	4.1

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

12

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

0000

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

YEARS

AUG
MONTH

ALL WEATHER
CLASS

04

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

0000

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.6											.6	2.0
NNE													
NE													
ENE													
E	.6											.6	2.0
ESE	.6											.6	2.0
SE													
SSE	1.3	1.3										2.6	3.3
S	5.2	1.3	.6									7.1	3.0
SSW	3.2	1.3	.6									5.2	3.5
SW	1.9	1.9										3.9	3.5
WSW	2.6	5.2	1.9									9.7	4.7
W	8.4	16.8	9.0	.6								24.8	5.1
WNW	3.9	5.2	.6									9.7	3.9
NW		2.6		.6								3.2	6.0
NNW		.6										.6	4.0
VARBL													
CALM												21.3	
	28.4	36.1	12.9	1.3								100.0	3.5

TOTAL NUMBER OF OBSERVATIONS

155

0000

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

AUG
MONTH

ALL WEATHER
CLASS

07
HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3											1.3	2.0
NNE													
NE	1.3											1.3	2.0
ENE	1.3											1.3	3.0
E	1.9	.6	.6									3.2	3.4
ESE		.6										.6	6.0
SE													
SSE													
S	5.2	1.3	.6									7.1	3.1
SSW	2.6	1.3	.6									4.3	3.4
SW	2.6	3.2	.6									6.5	3.7
WSW	6.5	6.5	.6									13.5	3.8
W	7.1	14.8	7.7									29.7	5.2
WNW	1.3	5.2	1.9									8.4	5.4
NW	.6	1.3										1.9	3.3
NNW	.6	1.3										1.9	4.0
VARBL													
CALM												18.7	
	32.3	36.1	12.9									100.0	3.5

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

AUG
MONTH

ALL WEATHER
CLASS

10
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

0000

0000

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 13	14 - 17	18 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		2.6											2.6	4.5
NNE		.6											.6	6.0
NE		.6											.6	4.0
ENE		.6											.6	4.0
E	.6	1.3	.6										2.6	4.5
ESE		.6	.6										1.3	6.5
SE														
SSE			.6										.6	6.0
S	1.3	3.2	.6										5.2	4.8
SSW	2.6	5.8	.6										9.0	4.4
SW	.6	9.0	1.3										11.0	5.0
WSW	1.9	10.3	5.8										18.1	5.6
W	6.5	11.0	11.0										28.4	5.7
WNW		2.6	1.9										4.5	6.9
NW		4.5	1.3										5.8	5.6
NNW	1.9	3.2											5.2	3.6
VARBL														
CALM													3.9	
	15.5	56.1	24.5										100.0	5.1

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

AUG
MONTH

ALL WEATHER
CLASS

13
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3											1.3	2.5
NNE		.6										.6	4.0
NE													
ENE													
E		.6	.6									1.3	7.0
ESE													
SE													
SSE													
S			2.6	.6								3.2	9.0
SSW	.6	7.7	3.9	.6								12.9	5.9
SW	.6	3.9	8.4									12.9	7.2
WSW	2.6	5.2	12.9	.6								21.3	7.0
W	1.9	9.0	20.0	2.6								33.5	7.5
WNW		2.6	5.8	.6								9.0	7.5
NW		1.3	1.3									2.6	6.3
NNW			1.3									1.3	7.0
VARBL													
CALM												.0	
	7.1	31.0	56.8	5.2								100.0	7.0

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

0000

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

AUG
MONTH

ALL WEATHER
CLASS

16
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

0000

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			.0									.6	7.0
NNE	.6											.6	2.0
NE													
ENE		.6										.6	5.0
E			.0									.6	8.0
ESE													
SE													
SSE													
S		1.3										1.3	5.0
SSW	.6	3.9	4.5									9.0	6.4
SW	1.9	3.2	8.4									13.5	7.0
WSW	.6	5.2	9.7	3.2								13.7	8.3
W	.6	7.7	24.5	6.5								39.4	8.6
WNW		4.5	7.7	1.9								14.2	6.3
NW													
NNW													
VARBL													
CALM												1.3	
	4.5	26.5	56.1	11.6								100.0	7.9

TOTAL NUMBER OF OBSERVATIONS

135

0000

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93117

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

AUG
MONTH

ALL WEATHER
CLASS

19
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE	.6											.6	2.0
NE													
ENE		.6										.6	4.0
E													
ESE			.6									.6	8.0
SE													
SSE													
S	1.2	1.9											
SSW	.6	4.3	.6									3.2	4.4
SW	3.9	1.9	2.6									5.8	4.3
WSW	3.2	4.5	5.8	.6								8.4	4.8
W	4.5	10.3	26.4	1.9								14.2	6.2
WNW	1.3	5.8	7.7	2.6								45.2	7.1
NW	1.3		.6									17.4	7.7
NNW												1.9	3.7
VARBL													
CALM												1.9	
	16.8	29.7	46.5	5.2								100.0	6.4

TOTAL NUMBER OF OBSERVATIONS

155

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

AUG

MONTH

ALL WEATHER

CLASS

22

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3											1.3	1.5
NNE													
NE													
ENE	.6											.6	3.0
E	.6											.6	3.0
ESE													
SE													
SSE													
S	1.9	3.2										5.2	3.8
SSW	1.9	.6										2.6	2.5
SW	2.6	5.2	1.9									9.7	4.5
WSW	5.8	5.8										11.6	3.7
W	5.8	23.2	14.2	1.9								43.2	6.0
WNW	1.3	5.8	5.8									12.9	6.4
NW		.6										.6	4.0
NNW	.6											.6	3.0
VARBL													
CALM												9.0	
	22.6	44.5	21.9	1.9								100.0	4.7

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

2

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

AUG
MONTH

ALL WEATHER

CLASS

ALL
MOORE (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.3	.1									1.0	3.1
NNE	.2	.2										.3	3.5
NE	.2	.1										.3	2.5
ENE	.2	.2										.5	3.7
E	.5	.4	.3									1.2	4.4
ESE	.1	.2	.2									.5	5.5
SE		.1										.1	5.0
SSE	.2	.2	.1									.6	4.0
S	2.7	1.7	.6	.1								5.0	3.9
SSW	1.9	3.5	1.5	.1								6.9	4.7
SW	2.1	3.8	3.1									9.0	5.4
WSW	3.7	6.0	4.7	.6								14.9	5.7
W	5.5	13.7	15.3	1.8								36.3	6.4
WNW	1.3	5.1	4.6	.6								11.6	6.6
NW	.3	1.4	.4	.1								2.2	5.1
NNW	.4	.6	.2									1.2	4.1
VARBL													
CALM												8.4	
	20.0	37.5	30.9	3.2								100.0	5.3

TOTAL NUMBER OF OBSERVATIONS

1240

DIRNAVOCEANMET SMOS

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

SEP

MONTH

ALL WEATHER

CLASS

01

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7											.7	2.0
NNE		.7										.7	4.0
NE													
ENE	.7	.7										1.3	3.5
E	1.3											1.3	3.0
ESE													
SE		.7	.7									1.3	6.5
SSE													
S	6.0	4.7	.7									11.3	3.4
SSW	4.0	2.0	.7	.7								7.3	4.7
SW		2.7	.7									3.3	5.0
WSW	3.3	6.0	.7									10.0	4.3
W	8.7	12.0	3.3	1.3								25.3	4.8
WNW	3.3	5.3	5.3									14.0	5.2
NW	1.3	2.0										3.3	3.6
NNW		.7										.7	5.0
VARBL													
CALM												19.3	
	29.3	37.3	12.0	2.0								100.0	3.6

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

2

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

SEP
MONTH

ALL WEATHER
CLASS

04
HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3											1.3	2.5
NNE			.7									.7	6.0
NE													
ENE	.7											.7	2.0
E	.7	1.3										2.0	3.7
ESE	.7	.7										1.3	3.5
SE	.7	1.3										2.0	3.7
SSE	.7	.7	.7									2.0	5.3
S	3.3	4.0	2.0									9.3	4.3
SSW	1.3											1.3	2.5
SW	4.0	2.7	.7									7.3	3.9
WSW	3.3	4.0	1.3									8.7	4.5
W	6.0	10.0	5.3	.7								22.0	5.2
WNW	5.3	8.0	1.3									14.7	4.6
NW	2.0	.7	1.3									4.0	4.3
NNW	1.3											1.3	2.5
VARBL													
CALM												21.3	
	31.3	33.3	13.3	.7								100.0	3.6

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

SEP
MONTH

ALL WEATHER
CLASS

07
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3											1.3	2.0
NNE		.7										.7	5.0
NE													
ENE		.7										.7	6.0
E	1.3	1.3		.7								3.3	5.0
ESE	.7	1.3										2.0	4.3
SE		.7										.7	4.0
SSE	.7	3.3	.7									4.7	5.1
S	3.3	2.7										6.0	3.3
SSW	1.3	4.0	.7									6.0	4.6
SW	.7	4.0	2.0									6.7	5.6
WSW	.7	4.0	1.3									6.0	5.1
W	5.3	11.3	5.3									22.0	5.1
WNW	2.0	4.7	3.3									10.0	5.3
NW	1.3	1.3	1.3									4.0	5.3
NNW	2.0	.7										2.7	2.5
VARBL													
CALM												23.3	
	20.7	40.7	14.7	.7								100.0	3.7

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

SEP
MONTH

ALL WEATHER

CLASS

10

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	2.0	1.3									4.0	5.3
NNE													
NE	.7											.7	2.0
ENE		2.7										2.7	4.8
E		.7	2.0									2.7	7.5
ESE		2.0										2.0	5.3
SE	.7		.7									1.3	5.5
SSE		.7										.7	5.0
S	.7	5.3										6.0	5.0
SSW		5.3	.7									6.0	5.2
SW	2.7	7.3	2.0									12.0	4.4
WSW	2.7	3.3	6.0									12.0	6.2
W	4.0	12.7	7.3	1.3								25.3	5.6
WNW	2.7	5.3	3.3	.7								12.0	6.1
NW		2.7										2.7	5.5
NNW	.7	5.3	.7									6.7	5.0
VARBL													
CALM												3.3	
	15.3	55.3	24.0	2.0								100.0	5.3

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

SEP
MONTH

ALL WEATHER
CLASS

13
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.7	.7									2.0	4.7
NNE		1.3										1.3	4.5
NE													
ENE		.7										.7	4.0
E		1.3	.7									2.0	5.7
ESE													
SE													
SSE													
S		1.3	.7									2.0	7.0
SSW	.7	7.3	2.0									10.0	6.0
SW	1.3	5.3	4.7	.7								12.0	6.2
WSW	.7	7.3	2.0	.7								10.7	6.3
W	1.3	18.0	14.0	2.0								35.3	6.9
WNW		2.7	11.3	2.0								16.0	8.1
NW	.7	1.3	2.7									4.7	6.7
NNW		2.7	.7									3.3	6.0
VARBL													
CALM												.0	
	5.3	50.0	39.3	5.3								100.0	6.7

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93117

STATION NAME
SAN CLEMENTE, CALIFORNIA

YEARS
73-77

MONTH
SEP

ALL WEATHER
CLASS

HOURS (L.S.T.)
16

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E			.7									.7	8.0
ESE													
SE													
SSE													
S	1.3	2.0	2.0									5.3	5.6
SSW		1.3	2.0									3.3	6.4
SW		6.7	2.0									8.7	6.1
WSW	.7	4.7	8.7	.7								14.7	7.1
W	.7	14.0	19.3	5.3								39.3	7.7
WNW	1.3	6.0	10.0	2.7								20.0	7.9
NW		3.3	1.3									4.7	6.3
NNW		1.3	.7									2.0	6.7
VARBL													
CALM												1.3	
	4.0	39.3	46.7	8.7								100.0	7.2

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

SEP
MONTH

ALL WEATHER

CLASS

19

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE	.7											.7	1.0
NE													
ENE													
E													
ESE		.7										.7	6.0
SE													
SSE			.7									.7	7.0
S	1.3	4.7	.7	.7								7.3	5.1
SSW		1.3	.7									2.0	5.3
SW	2.7	2.7	.7									6.0	4.7
WSW	4.7	2.7	5.3	.7								13.3	5.5
W	7.3	14.7	10.7	1.3								34.0	5.8
WNW	3.3	10.0	7.3	2.7								23.3	6.5
NW	.7	3.3	2.0	.7								6.7	6.4
NNW	.7											.7	3.0
VARBL													
CALM												4.7	
	21.3	40.0	28.0	6.0								100.0	5.5

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93117

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

SEP

MONTH

22

HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.7										.7	4.0
NNE													
NE	.7											.7	2.0
ENE													
E	.7		.7									1.3	5.0
ESE													
SE	.7	.7										1.3	4.0
SSE	1.3	.7										2.0	2.7
S	3.3	2.7	2.0									8.0	4.6
SSW	1.3	2.0	.7									4.0	5.2
SW	2.7	2.7	1.3									6.7	4.5
WSW	4.0	6.0	.7									10.7	3.7
W	4.7	14.0	2.7	.7								22.0	5.1
WNW	4.7	10.0	5.3	.7								20.7	5.5
NW	4.0	2.0	1.3									7.3	4.0
NNW	1.3	.7										2.0	3.3
VARBL													
CALM												12.7	
	29.3	42.0	14.7	1.3								100.0	4.1

TOTAL NUMBER OF OBSERVATIONS

150

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

SEP

MONTH

ALL WEATHER

CLASS

ALL

HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.4	.2									1.2	4.1
NNE	.1	.3	.1									.5	4.5
NE	.2											.2	2.0
ENE	.2	.6										.7	4.2
E	.5	.6	.5	.1								1.7	5.4
ESE	.2	.6										.7	4.7
SE	.2	.4	.2									.8	4.7
SSE	.3	.7	.2									1.2	4.8
S	2.4	3.4	1.0	.1								6.9	4.5
SSW	1.1	2.9	.9	.1								5.0	5.2
SW	1.7	4.2	1.7	.1								7.8	5.1
WSW	2.5	4.7	3.2	.2								10.7	5.5
W	4.7	13.3	8.5	1.6								28.2	6.0
WNW	2.8	6.5	5.9	1.1								16.3	6.3
NW	1.2	2.1	1.2	.1								4.7	5.3
NNW	.7	1.4	.2									2.4	4.6
VARBL													
CALM												10.7	
	19.6	42.2	24.1	3.3								100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

1200

DIRNA VOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION
93117

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

OCT

MONTH

ALL WEATHER

CLASS

01

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9		.6									2.6	3.8
NNE													
NE		.6										.6	6.0
ENE		.6										.6	5.0
E		.6										.6	4.0
ESE	.6	.6										1.3	3.5
SE	.6											.6	2.0
SSE	1.3	2.6										3.9	4.3
S	4.5	4.5	1.3									10.3	4.2
SSW	3.9	3.2	1.9									9.0	4.5
SW	3.9	3.2	.6									7.7	3.9
WSW	1.9	2.6	1.3	.6		.6						7.1	6.8
W	5.2	9.0	5.8	.6								20.6	5.2
WNW	2.6	6.5	1.3	.6								11.0	4.8
NW	.6	2.6	.6									3.9	5.2
NNW	3.2	1.3	.6	1.9	.6							7.7	7.3
VARBL													
CALM												12.3	
	30.3	38.1	14.2	3.9	.6	.6						100.0	4.4

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION
93117

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

01CT

MONTH

ALL WEATHER

CLASS

04

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.3										1.9	4.3
NNE	1.9		.6	.6								3.2	5.0
NE		2.6		.6								3.2	6.4
ENE	.6											.6	1.0
E	.6	.6										1.3	2.5
ESE		.6										.6	4.0
SE	1.9	1.9										3.9	3.2
SSE	3.2	1.3										4.5	2.9
S	1.3	5.2										6.5	4.1
SSW		3.9	.6									4.5	5.0
SW	1.3	0.5										7.7	4.3
WSW	.6	3.9	1.9		.6							7.1	6.7
W	7.1	7.7	5.9									18.7	4.4
WNW	3.9	3.2	5.2									12.3	5.5
NW	1.9	.6	1.3	.6								4.5	5.4
NNW	1.3	1.3	1.3	1.3								5.2	7.5
VARB.													
CALM												14.2	
	26.5	40.6	14.8	3.2	.6							100.0	4.2

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93117

SAN CLEMENTE, CALIFORNIA

72-77

STATION NAME

YEARS

MONTH
OCT

ALL WEATHER

CLASS

MONTH
07

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9		.6		.6							3.2	6.8
NNE		1.3										1.3	4.5
NE													
ENE	.6		1.9										
E		1.9										2.6	6.8
ESE	.6	1.3	.6	1.3								1.9	4.3
SE	1.3	.6										3.9	6.8
SSE	1.3	.6										1.9	3.0
S	2.6	2.6	1.3									1.9	2.7
SSW	1.3	1.9	.6									6.5	4.3
SW	1.9	3.2	1.3									3.9	5.2
WSW	4.5	4.5			.6							6.5	4.2
W	7.1	8.4	2.6									9.7	4.5
WNW	3.2	2.6	2.6									18.1	4.3
NW	.6	3.2		.6								8.4	4.8
NNW		1.9	1.3	.6								4.5	5.6
VARBL												3.9	7.7
CALM												21.9	
	27.1	34.2	12.9	2.6	1.3							100.0	3.8

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

OCT

MONTH

ALL WEATHER

CLASS

10

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.6	4.5	.6	.6								8.4	5.2
NNE	1.3	1.9	.6									3.9	4.7
NE													
ENE	.6			.6								1.3	7.0
E	1.3	3.2	1.3									5.8	5.3
ESE		.6	.6									1.3	5.5
SE													
SSE													
S	1.3	1.9	1.3									4.5	5.3
SSW	1.9	6.5	.6									9.0	5.0
SW	1.3	3.2	1.3									5.8	4.6
WSW	1.9	6.5	1.9									10.3	5.1
W	1.3	7.7	7.7	1.3								18.1	6.6
WNW	.6	3.2	5.2									9.7	6.5
NW	.6	3.2	.6	2.6	.6							7.1	8.1
NNW	1.9	5.2	.6									8.4	5.4
VARBL													
CALM												6.5	
	16.8	48.4	22.6	5.2	.6							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

155

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

OCT
MONTH

ALL WEATHER
CLASS

13
HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	4.5	1.9	.6								8.4	5.8
NNE				.6								.6	11.0
NE	.6			.6								1.3	8.0
ENE			.6									.6	7.0
E		.6	1.3									1.9	6.7
ESE			.6									.6	10.0
SE													
SSE	.6											.6	2.0
S		1.9										1.9	5.0
SSW		3.2	3.2									6.3	6.6
SW		3.9	6.5									10.3	7.1
WSW	3.2	6.5	7.1									16.3	6.1
W	1.3	7.7	11.0	1.3		.6						21.9	7.4
WNW	1.3	1.3	7.7	2.6								12.9	8.4
NW		3.9	2.6	3.2								9.7	8.5
NNW	.6	1.3	1.3	.6	.6							4.5	8.4
VARBL													
CALM												1.3	
	9.0	34.8	43.9	9.7	.6	.6						100.0	7.1

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

OCT
MONTH

ALL WEATHER
CLASS

16
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.6	.6	.6								1.9	9.0
NNE		.6		.6								1.3	9.5
NE													
ENE													
E													
ESE													
SE													
SSE													
S	.6	.6	.6	.6								1.3	4.0
SSW		2.6	5.2	.6								8.4	7.6
SW	1.9	1.9	4.5	.6								9.0	6.6
WSW	.6	5.2	4.5									10.3	6.3
W	1.9	9.7	19.4	4.5		.6						36.1	8.1
WNW	1.3	6.5	6.5	.6								14.8	7.0
NW	.6	2.6	4.5	1.3								9.0	7.8
NNW	1.3	1.3	1.9	1.9	.6							7.1	8.8
VARBL													
CALM												.6	
	8.4	31.6	47.1	11.0	.6	.6						100.0	7.5

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

OCT

MONTH

ALL WEATHER

CLASS

19

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.6	.6									1.9	4.3
NNE		1.3			.6							1.9	9.3
NE													
ENE													
E													
ESE													
SE	.6											.6	1.0
SSE													
S		1.9										1.9	4.7
SSW		2.6	.6									3.2	5.2
SW	.6	3.2	.6									4.5	5.3
WSW	3.2	7.7	1.9									12.9	5.0
W	3.9	14.6	11.0	1.9	.6	.6						32.9	6.8
WNW	1.9	6.5	5.8	.6								14.8	6.3
NW	1.9	5.2	4.5	1.3								12.9	6.5
NNW	.6	1.9	1.3			.6						4.5	7.9
VARBL													
CALM												7.7	
	13.5	45.8	26.5	3.9	1.3	1.3						100.0	5.3

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

2

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

OCT

MONTH

ALL WEATHER

CLASS

22

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3											1.3	2.5
NNE	1.3											1.3	1.5
NE				.6								.6	13.0
ENE	.6											.6	2.0
E													
ESE													
SE	1.9											1.9	2.0
SSE		1.9										1.9	4.0
S	4.5	3.9	.6									9.0	3.7
SSW	1.9	5.2										7.1	3.7
SW	1.9	3.9	1.3									7.1	4.7
WSW	4.5	5.8	.6									11.0	3.6
W	2.6	13.5	3.2	1.3		.6						21.3	6.1
WNW	1.3	7.7	3.2									12.3	5.7
NW	1.9		1.9									3.9	6.0
NNW	1.9	.6	1.3	1.9		.6						6.5	9.1
VARBL													
CALM												14.2	
	25.8	42.6	12.3	3.9		1.3						100.0	4.4

TOTAL NUMBER OF OBSERVATIONS

155

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77
YEARS

UCT
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.5	.6	.2	.1							3.7	5.4
NNE	.6	.6	.2	.2	.1							1.7	5.9
NE	.1	.4		.2								.7	7.4
ENE	.3	.1	.3	.1								.8	5.6
E	.2	.9	.3									1.5	5.0
ESE	.2	.4	.2	.2								1.0	6.1
SE	.8	.3										1.1	2.6
SSE	.8	.8										1.6	3.4
S	1.9	2.8	.6									5.2	4.3
SSW	1.1	3.6	1.6	.1								6.5	5.4
SW	1.6	3.6	2.0	.1								7.3	5.3
WSW	2.6	5.3	2.4	.1	.2	.1						10.6	5.5
W	3.8	9.8	3.1	1.4	.1	.3						23.5	6.3
WNW	2.0	4.8	4.7	.6								12.0	6.2
NW	1.0	2.7	2.0	1.2								6.9	7.0
NNW	1.4	1.9	1.2	1.0	.3	.2						6.0	7.6
VARBL													
CALM												9.8	
	19.7	39.5	24.3	5.4	.7	.6						100.0	5.3

TOTAL NUMBER OF OBSERVATIONS

1240

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

2

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

YEARS

NOV

MONTH

ALL WEATHER

CLASS

01

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.7		.7									3.3	3.2
NNE	.7	1.3										2.0	4.0
NE	1.3											1.3	3.0
ENE	1.3	1.3										2.7	3.5
E	1.3	3.3	.7									5.3	5.1
ESE	1.3	.7	.7	1.3								4.0	7.0
SE	.7											.7	3.0
SSE	1.3	1.3										2.7	3.0
S	4.0	4.0	.7									8.7	3.5
SSW	1.3	.7	.7	.7								3.3	5.8
SW	.7	2.7										3.3	4.2
WSW	.7	3.3										4.0	4.0
W	2.0	6.0	4.7	2.7								15.3	7.3
WNW	2.0	1.3	6.0	3.3	.7	.7						14.0	9.5
NW		2.0	1.3	.7	.7							4.7	9.3
NNW	1.3	1.3	1.3									4.0	5.0
VARBL													
CALM												20.7	
	22.7	29.3	16.7	8.7	1.3	.7						100.0	4.8

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

1222

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93117

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

NOV
MONTH

ALL WEATHER
CLASS

04
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0											2.0	1.7
NNE	2.0	1.3										3.3	3.0
NE	2.7	.7										3.3	2.6
ENE	.7											.7	2.0
E	1.3	2.0	1.3	.7								5.3	6.4
ESE	3.3	2.0		.7								6.0	4.1
SE	2.7	2.0										4.7	3.3
SSE	2.0	1.3										3.3	3.4
S	4.7	3.3										8.0	3.0
SSW	.7	1.3										2.0	4.3
SW	.7	.7										1.3	3.5
WSW	2.7	2.0	.7									5.3	3.6
W	1.3	4.7	2.7	2.0	.7							11.3	7.6
WNW	1.3	3.3	4.0	2.0	.7							11.3	8.4
NW	2.7	1.3	1.3	1.3								6.7	9.9
NNW	2.0	2.7	1.3									6.0	4.6
VARBL													
CALM												19.3	
	30.0	30.0	11.3	6.7	2.7							100.0	4.4

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77
YEARS

NOV
MONTH

ALL WEATHER
CLASS

07
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.7										2.0	3.0
NNE	1.3	1.3										2.7	3.0
NE	.7		.7									1.3	5.5
ENE	1.3	.7										2.0	4.0
E	.7	1.3	2.0	.7								4.7	7.3
ESE	1.3	4.7	2.0	.7								3.7	6.1
SE	.7	.7										1.3	3.0
SSE	2.0	1.3										3.3	3.4
S	1.3		1.3									2.7	5.3
SSW	4.0	1.3	.7									6.0	3.2
SW	.7	4.7										5.3	4.9
WSW	1.3	.7										2.0	3.0
W	1.3	6.0	6.0									13.3	6.4
WNW		4.0	3.3	2.7								10.0	8.3
NW	.7	2.0	2.0	.7	.7							6.0	8.4
NNW	.7	2.0	1.3									4.0	6.2
VARBL													
CALM												24.7	
	19.3	31.3	19.3	4.7	.7							100.0	4.4

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

1225

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

NOV
MONTH

ALL WEATHER
CLASS

10
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.3	3.3										6.7	3.4
NNE		1.3	.7									2.0	5.7
NE	.7	.7										1.3	3.5
ENE	.7	2.0										2.7	5.0
E		2.7	3.3	.7		.7						7.3	8.8
ESE		3.3	.7	2.0								6.0	7.3
SE													
SSE	.7	.7										1.3	2.5
S	3.3	2.0	.7									6.0	3.7
SSW	2.0	5.3	1.3									8.7	4.6
SW		2.0										2.0	4.3
WSW	1.3	3.3	1.3									6.0	5.4
W	1.3	3.3	5.3	4.7	.7							15.3	9.1
WNW	.7	5.3	5.3	1.3								12.7	7.2
NW		2.7	2.7	1.3	.7							7.3	9.2
NNW	3.3	3.3	3.3									10.0	5.5
VARBL													
CALM												4.7	
	17.3	41.3	24.7	10.0	1.3	.7						100.0	6.2

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93117

STATION NAME
SAN CLEMENTE, CALIFORNIA

YEARS
73-77

MONTH
NOV

CLASS
ALL WEATHER

HOURS (L.S.T.)
13

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	4.0	2.7										6.7	3.2
NNE		1.3										1.3	4.5
NE		1.3	.7									2.0	6.3
ENE		1.3										1.3	5.5
E			2.0	1.3								3.3	10.0
ESE		.7	.7									1.3	5.5
SE	.7		.7									.7	8.0
SSE	.7	2.7	.7									.7	3.0
S	.7	2.7	.7									4.0	5.2
SSW	.7	2.7	2.7									6.0	5.8
SW	3.3	2.7	.7									6.7	4.0
WSW	2.0	1.3	3.3									6.7	6.0
W	1.3	4.7	6.0	3.3	.7							16.0	8.4
WNW	1.3	5.3	7.3	3.3	.7							18.0	8.6
NW		3.3	4.7	2.0	1.3							11.3	9.5
NNW	2.7	6.0	2.0									12.7	5.2
VARBL													
CALM												1.3	
	16.7	38.0	31.3	10.0	2.7							100.0	6.8

TOTAL NUMBER OF OBSERVATIONS

130

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

NOV
MONTH

ALL WEATHER
CLASS

16
HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	4.7	1.3										6.0	2.8
NNE	.7		.7									1.3	5.5
NE	.7											.7	3.0
ENE													
E													
ESE		.7										.7	6.0
SE													
SSE													
S	.7	2.0	2.7									5.3	7.1
SSW	2.0	3.3	.7									6.0	4.8
SW	1.3	2.0	1.3									4.7	4.7
WSW		4.7	2.0									6.7	5.9
W	1.3	4.7	11.3	2.0	2.0							21.3	8.9
WNW	2.0	5.3	9.3	4.7	.7							22.0	8.5
NW	1.3	4.0	3.3	2.0								10.7	7.2
NNW	4.0	4.7	.7	.7								10.0	4.9
VARBL													
CALM												4.7	
	18.7	32.7	32.0	9.3	2.7							100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

NOV
MONTH

ALL WEATHER

CLASS

19

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	2.0	.7									4.0	4.5
NNE													
NE													
ENE		.7										.7	5.0
E													
ESE													
SE	.7	.7										.7	5.0
SSE	2.0	2.0	2.0	.7								1.3	3.0
S	1.3	3.3	.7									6.7	6.1
SSW	1.3	2.0	2.0									5.3	4.5
SW	.7	2.0	.7									3.3	5.3
WSW	2.7	5.3	3.3	2.7								14.0	6.8
W	2.7	8.0	6.7	4.7	2.0	.7						24.7	9.0
WNW	1.3	6.0	3.3	.7								11.3	5.8
NW	3.3	5.3	.7									9.3	3.8
NNW													
VARBL													
CALM												13.3	
	17.3	38.0	20.0	8.7	2.0	.7						100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

150

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77
YEARS

NOV
MONTH

ALL WEATHER
CLASS

22
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.7	2.7										5.3	3.1
NNE	4.7	.7										5.3	3.0
NE	.7	1.3										2.0	3.7
ENE		.7										.7	4.0
E	.7	1.3										2.0	5.0
ESE	.7											.7	2.0
SE	.7	1.3	.7									2.7	5.5
SSE	.7											.7	2.0
S	4.7	2.0	1.3									8.0	3.9
SSW	2.0	1.3	1.3									4.7	4.6
SW	.7		.7									1.3	5.0
WSW		2.7		.7								3.3	5.8
W	3.3	5.3	4.7	2.0	.7							16.0	6.8
WNW	2.7	3.3	5.3	4.0		.7						16.0	8.3
NW	3.3	4.7	1.3		.7							10.0	5.7
NNW	.7	.7	1.3	.7								3.3	7.0
VARBL													
CALM												18.0	
	28.0	28.0	16.7	7.3	1.3	.7						100.0	4.7

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

NOV
MONTH

ALL WEATHER
CLASS

ALL
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.7	1.0	.2									4.5	3.2
NNE	1.2	.9	.2									2.2	3.7
NE	.8	.5	.2									1.3	3.9
ENE	.5	.8										1.3	4.3
E	.5	1.3	1.2	.4		.1						3.5	7.3
ESE	.6	1.5	.5	.6								3.4	5.9
SE	.6	.6	.2									1.3	4.2
SSE	1.0	.7										1.7	3.1
S	2.7	2.2	1.2	.1								6.2	4.5
SSW	1.7	2.4	1.0	.1								5.2	4.7
SW	1.1	2.1	.6									3.7	4.6
WSW	1.1	2.5	1.0	.1								4.7	5.1
W	1.8	5.0	5.5	2.4	.6							15.3	7.8
WNW	1.6	4.5	5.9	3.2	.6	.2						16.1	8.5
NW	.8	3.4	2.5	1.1	.7							8.5	7.9
NNW	2.2	3.5	1.5	.2								7.4	5.1
VARBL													
CALM												13.3	
	21.2	33.6	21.5	8.2	1.8	.3						100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

1200

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

DEC

MONTH

ALL WEATHER

CLASS

01

HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.6	1.3		.6	.6						3.9	11.0
NNE	1.3											1.3	2.0
NE						.6						.6	27.0
ENE		1.9	.6		.6							3.2	7.8
E	1.3	1.3	1.9	.6								5.2	7.1
ESE	.6	.6	1.3									2.6	6.5
SE	2.6	1.9		.6								5.2	4.8
SSE	4.5	1.9			.6							7.1	4.1
S	5.8	3.2	1.9	.6								11.6	4.4
SSW	.6	1.9	1.3									3.9	5.7
SW	.6	.6										1.3	3.5
WSW	1.9	1.9										3.9	3.5
W	4.5	1.3	1.3	.6								7.7	4.2
WNW	3.9	1.9	1.3	.6								7.7	4.7
NW	1.3	1.9	1.9	1.3	.6							7.1	8.6
NNW		2.6		.6								3.2	6.6
VARBL													
CALM												24.5	
	29.7	23.9	12.9	5.2	2.6	1.3						100.0	4.4

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

DEC
MONTH

ALL WEATHER
CLASS

04
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.6	.6	.6	.6							3.2	9.6
NNE	.6	1.3										1.9	3.7
NE	1.3	.6	.6		1.3							3.9	9.2
ENE	1.3	.6	.6		.6							3.2	6.6
E	3.2	3.9	.6	1.9								9.7	6.1
ESE	1.9	1.9	2.6	1.3								7.7	6.8
SE	1.9	1.3										3.2	2.4
SSE	1.9	1.9	1.3									5.2	3.9
S	2.6	5.2	1.3		.6							9.7	5.5
SSW		.6										.6	6.0
SW	.6	1.3										1.9	4.0
WSW	2.6	1.9	.6									5.2	3.9
W	5.8	2.6	.6									9.0	3.4
WNW	.6	.6	.6	1.9	.6							4.5	10.7
NW	.6	1.3	3.2		.6							5.8	7.8
NNW	1.3	1.3	1.3	.6								4.5	6.9
VARBL													
CALM												20.6	
	27.1	27.1	14.2	6.5	4.5							100.0	4.7

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

DEC

MONTH

07

HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3		1.3	.6	.6							3.9	9.0
NNE	.6	1.3	.6									2.6	4.8
NE		1.9	.6	.6								3.2	7.0
ENE		1.3	.6	1.9	.6							4.5	10.9
E	.6	1.3	1.9	.6								4.5	7.4
ESE	1.3	5.6	2.6	.6								10.3	6.1
SE	1.3	1.9	.6									3.9	4.5
SSE	5.2	1.9										7.1	3.4
S	2.6	2.6	.6	.6								6.5	4.9
SSW	1.9	3.2										5.2	3.8
SW		1.9										1.9	5.7
WSW	.6	.6										1.3	3.5
W	2.6		1.3	.6								4.5	5.6
WNW	1.9	1.3	1.9	.6	.6							6.5	7.2
NW	1.3	.6	3.2	.6								5.8	7.2
NNW	.6	1.3	.6	.6								3.2	7.6
VARBL													
CALM												25.2	
	21.9	27.1	16.1	7.7	1.9							100.0	4.6

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

DEC
MONTH

ALL WEATHER
CLASS

10
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.6	1.9	.6									5.2	3.5
NNE	.6	.6	1.3									2.6	5.8
NE			.6		1.3							1.9	17.0
ENE	.6	1.3	1.3									3.2	6.0
E	1.9	4.5	1.9	1.3	.6							10.3	6.9
ESE	1.9	1.9	1.3	1.9								7.1	6.7
SE	.6											.6	3.0
SSE	.6	.6										1.3	4.0
S	3.2	1.3	2.6		.6							7.7	6.5
SSW	3.2	5.2	1.3									9.7	4.5
SW	3.2	3.9	.6	.6								8.4	4.5
WSW	.6	3.9										4.5	4.1
W	2.6	3.2	2.6		.6							9.0	6.0
WNW	1.3	3.2	3.9	3.2		.6						12.3	9.1
NW		.6	.6									1.3	6.0
NNW	1.9	1.3	1.3	.6	.6							5.2	7.3
VARBL													
CALM												9.0	
	25.2	33.5	20.0	7.7	3.9	.6						100.0	5.8

TOTAL NUMBER OF OBSERVATIONS

155

2

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

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93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

DEC

MONTH

13

HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

5702 SURFACE WINDS JAN 78

0000

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.2	3.2										6.5	3.6
NNE	.6	2.6		.6								3.9	5.8
NE			.6	.6		.6						1.9	15.7
ENE	.6		1.3	.6								2.6	7.3
E	.6	3.9		.6								5.2	5.8
ESE		.6	.6	.6								1.9	8.0
SE													
SSE	.6			.6								1.3	7.0
S		1.9	1.9	.6								4.5	7.3
SSW	1.3	3.9	2.6									7.7	5.3
SW	3.2	5.2	.6	.6								9.7	4.7
WSW	1.9	3.2	.6									5.8	4.4
W	5.8	5.8	4.3	1.9								18.1	5.9
WNW	.6	4.5	1.9	1.9	.6							9.7	7.9
NW	.6	3.2	.6	3.2	.6							8.4	9.2
NNW	1.9	1.3	1.3		.6							5.2	6.4
VARBL													
CALM												7.7	
	21.3	39.4	16.8	12.3	1.9	.6						100.0	5.9

TOTAL NUMBER OF OBSERVATIONS

155

0000

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 93117 SAN CLEMENTE, CALIFORNIA STATION NAME 73-77 YEARS MONTH DEC
HOURS (L.S.T.) 16

ALL WEATHER
CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	.6										2.6	2.3
NNE	1.9	.6	.6			.6						3.9	7.5
NE	1.3		.6									1.9	4.3
ENE													
E	.6	1.9										2.6	4.0
ESE	.6		.6	.6								1.9	9.7
SE													
SSE	.6			.6								1.3	7.0
S	.6	1.9	1.3									3.9	5.0
SSW	.6	1.9										2.6	3.5
SW	1.9	6.5	3.2									11.7	5.7
WSW	3.2	1.3	.6									5.2	4.0
W	3.9	9.7	6.5	3.9								24.0	6.4
WNW	3.2	3.9	5.8	1.9	1.3							16.2	8.0
NW	2.6	1.3	1.9	1.3								7.1	7.5
NNW	2.6	5.2	1.3	.6								9.7	5.1
VARBL													
CALM												3.2	
	26.0	35.1	22.7	7.8	2.6	.6						100.0	5.8

TOTAL NUMBER OF OBSERVATIONS 154

121704 04271

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

0000

93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

DEC
MONTH

ALL WEATHER
CLASS

19
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

0000

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6		.6									1.3	5.0
NNE	.6											.6	3.0
NE					.6							.6	21.0
ENE	.6			.6								1.3	7.5
E	.6		.6	.6								1.9	8.7
ESE	1.9	1.3										3.2	3.2
SE	1.3	.6		.6								2.6	5.5
SSE		.6										.6	4.0
S	3.2	3.9	.6									7.7	3.8
SSW	1.3	1.3	1.3									3.9	4.7
SW	1.3	.6		.6								2.6	5.8
WSW	2.6	3.9	.6									7.1	4.1
W	4.5	3.2	2.6	3.2	.6							14.2	7.3
WNW	5.2	3.9	3.2	1.9	.6	.6						15.5	7.3
NW	1.9	2.6	.6		.6							5.8	5.9
NNW	1.9	.6	.6	.6								3.9	6.2
VARBL													
CALM												27.1	
	27.7	22.6	11.0	8.4	2.6	.6						100.0	4.4

TOTAL NUMBER OF OBSERVATIONS

155

0000

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

2

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION
93117

SAN CLEMENTE, CALIFORNIA

73-77

YEARS

DEC
MONTH

ALL WEATHER
CLASS

22
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3		.6	.6	.6							3.2	8.8
NNE	.6	.6										1.3	3.0
NE	.6				.6	.6						1.9	15.0
ENE	1.3	.6										1.9	3.3
E		1.3	1.3	.6								3.2	7.8
ESE			1.3	.6								1.9	10.0
SE	3.2	.6	.6									4.5	3.3
SSE	1.9	2.6		.6								5.2	5.1
S	3.9	3.2	1.9	.6								9.7	5.1
SSW	1.9	.6	.6	.6								3.9	5.2
SW	1.3	1.3		.6								3.2	5.8
WSW	1.9	1.3										3.2	2.4
W	6.5	2.6	3.9	.6								13.5	5.0
WNW	3.2	2.6	3.9	1.3	1.3							12.3	7.7
NW	2.6	.6	1.9	1.3	.6							7.1	8.3
NNW	1.9	.6	1.3									3.9	5.0
VARBL													
CALM												20.0	
	32.3	18.7	17.4	7.7	3.2	.6						100.0	4.9

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

DEC

MONTH

ALL WEATHER

CLASS

ALL

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.5	.9	.6	.2	.3	.1						3.7	6.4
NNE	.9	.9	.3	.1		.1						2.3	5.2
NE	.4	.3	.4	.2	.3	.2						2.0	11.8
ENE	.6	.7	.6	.4	.2							2.5	7.5
E	1.1	2.3	1.0	.8	.1							5.3	6.6
ESE	1.0	1.5	1.3	.7								4.6	6.6
SE	1.4	.8	.2	.2								2.5	4.0
SSE	1.9	1.2	.2	.2	.1							3.6	4.3
S	2.7	2.9	1.5	.3	.2							7.7	5.2
SSW	1.4	2.3	.9	.1								4.7	4.7
SW	1.5	2.7	.6	.3								5.1	5.0
WSW	1.9	2.3	.3									4.5	3.9
W	4.5	3.6	2.9	1.4	.2							12.5	5.7
WNW	2.5	2.7	2.8	1.7	.6	.2						10.6	7.8
NW	1.4	1.5	1.8	.8	.6							6.1	7.8
NNW	1.5	1.6	1.0	.5	.2							4.9	6.2
VARBL													
CALM												17.4	
	26.4	28.4	16.4	7.9	2.9	.6						100.0	5.1

TOTAL NUMBER OF OBSERVATIONS

1239

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

93117
STATION

SAN CLEMENTE, CALIFORNIA

STATION NAME

73-77

YEARS

ALL
MONTH

ALL WEATHER

CLASS

ALL
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.0	.4	.2	.1	.0						2.7	5.0
NNE	.4	.5	.1	.1	.0	.0						1.2	5.1
NE	.3	.4	.1	.1	.1	.0						1.0	6.7
ENE	.4	.5	.2	.1	.0	.0						1.2	5.4
E	.6	1.0	.7	.2	.0	.0						2.6	6.0
ESE	.4	.7	.4	.2								1.8	6.0
SE	.4	.4	.1	.0	.0		.0					1.1	4.8
SSE	.7	.6	.1	.1	.0							1.5	4.6
S	2.1	2.8	1.2	.3	.1							6.6	5.3
SSW	1.6	3.0	1.5	.2	.0	.0						6.3	5.3
SW	1.7	3.1	1.8	.2	.0							6.9	5.4
WSW	2.0	4.1	2.5	.3	.0	.0						8.9	5.5
W	3.2	8.2	8.9	2.6	.2	.1						23.3	7.0
WNW	1.6	4.2	5.0	2.9	.7	.3	.0					14.7	8.6
NW	.8	2.0	1.9	1.2	.3	.1						6.3	8.2
NNW	1.0	1.5	.8	.3	.1	.0						3.7	6.0
VARBL													
CALM												10.4	
	18.3	34.1	25.9	9.0	1.7	.5	.0					100.0	5.9

TOTAL NUMBER OF OBSERVATIONS

14607

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

ALL
MONTH

STATION NAME

YEARS

INSTRUMENT

CLASS

ALL
HOURS (L.S.T.)

CIG 200 TO 1400 FT W/VISBY 1/2 MI OR MORE,

CONDITION

AND/OR VISBY 1/2 TO 2-1/2 MI W/CIG 200 FT OR MORE

5702 SURFACE WINDS JAN 78

0800

TOTAL NUMBER OF OBSERVATIONS

4615

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.5	.6	.2	.1								1.4	4.6
NNE	.2	.2	.1	.0								.5	4.7
NE	.0	.1	.0	.0	.0							.3	6.2
ENE	.2	.3	.1									.6	4.1
E	.5	.5	.2	.1								1.2	4.5
ESE	.2	.4	.2	.1								.8	5.9
SE	.1	.1	.1	.0			.0					.4	6.6
SSE	.4	.3	.1	.0	.0							.8	5.2
S	2.3	2.4	1.3	.3	.2							6.5	5.5
SSW	1.6	3.1	1.6	.2								6.5	5.2
SW	2.3	4.1	2.1	.2	.0							8.7	5.3
WSW	2.7	5.9	3.5	.4								12.5	5.6
W	3.9	11.5	12.0	2.9	.2	.0						30.4	6.8
WNW	1.8	5.1	5.3	1.7	.2	.0						14.0	7.1
NW	.8	1.8	1.1	.3	.1							4.2	6.3
NNW	.6	.7	.4	.1								1.8	5.3
VARBL													
CALM												9.4	
	18.1	36.9	28.2	6.5	.7	.1	.0					100.0	5.6

DIRNAVOCEANMET SMOS

NWSD, Federal Building
Asheville, N. C.

PART D CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from 3-hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By month - all years and all hours combined
3. By month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 5/16	≥ 1/4	≥ 0
NO CEILING														
≥ 1800														
≥ 1500					91.0									92.6
≥ 1200														
≥ 1000														
≥ 900														
≥ 800														
≥ 700														
≥ 600														
≥ 500										97.4				98.1
≥ 400														
≥ 300														
≥ 200														
≥ 100														
0					95.4		96.9			98.3				100.0

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed ≥ 0 .
For instance, from the table: Ceiling ≥ 1500 feet = 92.6%.
Ceiling ≥ 500 feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite ≥ 0 . From the table:
Visibility ≥ 3 miles = 95.4%.
Visibility ≥ 2 miles = 96.9%.
Visibility ≥ 1 mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling ≥ 1500 feet with visibility ≥ 3 miles = 91.0%.

PART D

ADDITIONAL EXAMPLES

EXAMPLE # 4

Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.

Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5

To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of ≥ 1500 feet with ≥ 3 miles, subtracted from 97.4 read from the table at the intersection of ≥ 500 feet with ≥ 1 mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling ≥ 500 feet with visibility > 1 mile, but < 3 miles; or ceiling ≥ 500 feet, but < 1500 feet with visibility ≥ 1 mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

PART D

SKY COVER

This summary is prepared from 3-hourly observations and is a percentage frequency distribution of total sky cover by tenths, plus mean sky cover, and total number of observations. It is presented in two tables as follows:

1. By month and annual - all hours and all years combined.
2. By month - by standard 3-hour groups.

NOTE: # 1: Sky cover (total cloud amount) was not reported by U. S. Services until mid 1945. Data, when available, were punched for Air Force stations beginning in 1946, but were not available for Navy stations until 1948 or 1949. Weather Bureau stations recorded total cloud amount in remarks beginning sometime in 1945, but few stations have punched data prior to 1948. This summary will, of course, be limited to period of available data.

NOTE: # 2: Some sources of punched data used for this summary report cloud amounts in oktas. These have been converted to tenths prior to summarizing, and notation is made on the form to indicate that data were originally reported in oktas. The manner of conversion is given below:

OKTAS

0
1
2
3
4
5
6
7
8 (or obscured)

TENTHS

0
1
3
4
5
6
8
9
10

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

JAN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING	38.7	63.2	66.5	67.7	67.7	67.7	67.7	67.7	67.7	68.4	68.4	68.4
≥ 20000	38.7	64.5	67.7	67.7	69.0	69.0	69.0	69.0	69.0	70.3	70.3	70.3
≥ 18000	38.7	64.5	67.7	67.7	69.0	69.0	69.0	69.0	69.0	70.3	70.3	70.3
≥ 16000	38.7	64.5	67.7	67.7	69.0	69.0	69.0	69.0	69.0	70.3	70.3	70.3
≥ 14000	38.7	64.5	67.7	67.7	69.0	69.0	69.0	69.0	69.0	70.3	70.3	70.3
≥ 12000	39.4	65.2	68.4	68.4	69.7	69.7	69.7	69.7	69.7	71.0	71.0	71.0
≥ 10000	39.4	65.2	68.4	68.4	69.7	69.7	69.7	69.7	69.7	71.0	71.0	71.0
≥ 9000	39.4	65.2	68.4	68.4	69.7	69.7	69.7	69.7	69.7	71.0	71.0	71.0
≥ 8000	40.7	66.5	69.7	69.7	71.0	71.0	71.0	71.0	71.0	72.3	72.3	72.3
≥ 7000	41.3	67.7	71.0	71.0	72.3	72.3	72.3	72.3	72.3	73.6	73.6	73.6
≥ 6000	41.3	68.4	71.0	71.0	72.9	72.9	72.9	72.9	72.9	74.2	74.2	74.2
≥ 5000	41.3	69.0	72.3	72.3	73.6	73.6	73.6	73.6	73.6	74.8	74.8	74.8
≥ 4500	41.3	69.0	72.3	72.3	73.6	73.6	73.6	73.6	73.6	74.8	74.8	74.8
≥ 4000	42.6	70.3	73.6	73.6	74.8	74.8	74.8	74.8	74.8	76.1	76.1	76.1
≥ 3500	43.2	71.0	74.2	74.2	75.5	75.5	75.5	75.5	75.5	76.8	76.8	76.8
≥ 3000	43.9	71.6	74.8	74.8	76.1	76.1	76.1	76.1	76.1	77.4	77.4	77.4
≥ 2500	44.3	73.6	76.8	76.8	78.1	78.1	78.1	78.1	78.1	79.4	79.4	79.4
≥ 2000	45.8	77.4	81.3	81.3	82.6	82.6	82.6	82.6	82.6	83.9	83.9	83.9
≥ 1800	45.8	77.4	81.3	81.3	82.6	82.6	82.6	82.6	82.6	83.9	83.9	83.9
≥ 1500	47.1	80.0	83.9	83.9	85.2	85.2	85.2	85.2	85.2	86.5	86.5	86.5
≥ 1200	47.1	80.7	84.5	84.5	85.8	85.8	85.8	85.8	85.8	87.1	87.1	87.1
≥ 1000	47.1	83.2	87.1	87.1	88.4	88.4	88.4	88.4	88.4	89.7	89.7	89.7
≥ 900	47.1	83.9	87.7	87.7	89.0	89.0	89.0	89.0	89.0	90.3	90.3	90.3
≥ 800	47.7	85.2	89.0	89.0	90.3	90.3	90.3	90.3	90.3	91.6	91.6	91.6
≥ 700	47.7	85.2	89.0	89.0	90.3	90.3	90.3	90.3	90.3	91.6	91.6	91.6
≥ 600	47.7	85.8	89.7	89.7	91.0	91.0	91.0	91.0	91.0	92.9	92.9	92.9
≥ 500	47.7	86.5	90.3	90.3	91.6	91.6	91.6	91.6	91.6	92.9	92.9	92.9
≥ 400	47.7	86.5	90.3	90.3	91.6	91.6	91.6	91.6	91.6	92.9	92.9	92.9
≥ 300	47.7	86.5	90.3	90.3	91.6	91.6	91.6	91.6	91.6	92.9	92.9	92.9
≥ 200	47.7	86.5	90.3	90.3	91.6	91.6	91.6	91.6	91.6	92.9	92.9	92.9
≥ 100	47.7	86.5	90.3	90.3	91.6	91.6	91.6	91.6	91.6	92.9	92.9	92.9
≥ 0	47.7	86.5	90.3	90.3	91.6	91.6	91.6	91.6	91.6	92.9	92.9	92.9

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET

SMOS

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

JAN
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)04
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING	35.1	66.5	68.4	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.6	72.3
≥ 20000	38.1	67.1	69.0	71.0	71.6	71.6	71.6	71.6	71.6	72.3	72.3	72.9	73.6
18000	38.1	67.1	69.0	71.0	71.6	71.6	71.6	71.6	71.6	72.3	72.3	72.9	73.6
16000	38.1	67.1	69.0	71.0	71.6	71.6	71.6	71.6	71.6	72.3	72.3	72.9	73.6
14000	38.1	67.1	69.0	71.0	71.6	71.6	71.6	71.6	71.6	72.3	72.3	72.9	73.6
12000	38.1	67.1	69.0	71.0	71.6	71.6	71.6	71.6	71.6	72.3	72.3	72.9	73.6
10000	38.1	67.1	69.0	71.0	71.6	71.6	71.6	71.6	71.6	72.3	72.3	72.9	73.6
9000	38.1	67.1	69.0	71.0	71.6	71.6	71.6	71.6	71.6	72.3	72.3	72.9	73.6
8000	39.4	68.4	70.3	72.3	72.9	72.9	72.9	72.9	73.6	74.2	74.2	74.8	75.5
7000	40.0	69.0	71.0	72.9	73.6	73.6	73.6	73.6	74.2	74.8	74.8	75.5	76.1
6000	40.0	69.0	71.0	72.9	73.6	73.6	73.6	73.6	74.2	74.8	74.8	75.5	76.1
5000	40.7	69.7	71.6	73.6	74.2	74.2	74.2	74.2	74.8	75.5	75.5	76.1	76.8
4500	40.7	69.7	71.6	73.6	74.2	74.2	74.2	74.2	74.8	75.5	75.5	76.1	76.8
4000	40.7	69.7	71.6	73.6	74.2	74.2	74.2	74.2	74.8	75.5	75.5	76.1	76.8
3500	40.7	69.7	71.6	73.6	74.2	74.2	74.2	74.2	74.8	75.5	75.5	76.1	76.8
3000	41.3	71.0	72.9	74.8	75.5	75.5	75.5	75.5	76.1	76.8	76.8	77.4	78.1
2500	42.6	73.6	76.1	78.1	78.7	78.7	78.7	78.7	79.4	79.4	79.4	80.0	80.7
2000	44.5	77.4	80.0	81.9	82.6	82.6	82.6	82.6	83.2	83.2	83.2	83.9	84.5
1800	44.5	77.4	80.0	81.9	82.6	82.6	82.6	82.6	83.2	83.2	83.2	83.9	84.5
1500	45.2	79.4	81.9	83.9	84.5	84.5	84.5	84.5	85.2	85.2	85.2	85.8	86.5
1200	45.2	79.4	81.9	83.9	84.5	84.5	84.5	84.5	85.2	85.2	85.2	85.8	86.5
1000	45.2	80.7	83.2	85.2	85.8	85.8	85.8	85.8	86.5	86.5	86.5	87.1	87.8
900	45.2	81.3	83.9	85.8	86.5	86.5	86.5	86.5	87.1	87.1	87.1	87.7	88.4
800	45.8	83.2	86.5	88.4	89.0	89.0	89.0	89.0	89.7	89.7	89.7	90.3	91.0
700	45.8	83.2	86.5	88.4	89.0	89.0	89.0	89.0	89.7	89.7	89.7	90.3	91.0
600	45.8	83.2	86.5	88.4	89.0	89.0	89.0	89.0	89.7	89.7	89.7	90.3	91.0
500	45.8	84.5	88.4	90.3	91.0	91.0	91.0	91.0	91.6	91.6	91.6	92.3	93.0
400	45.8	84.5	88.4	90.3	91.0	91.0	91.0	91.0	91.6	91.6	91.6	92.3	93.0
300	45.8	84.5	88.4	90.3	91.0	91.0	91.0	91.0	91.6	91.6	91.6	92.3	93.0
200	45.8	84.5	88.4	90.3	91.0	91.0	91.0	91.0	91.6	91.6	91.6	92.3	93.0
100	45.8	84.5	88.4	90.3	91.0	91.0	91.0	91.0	91.6	91.6	91.6	92.3	93.0
0	45.8	84.5	88.4	90.3	91.0	91.0	91.0	91.0	91.6	91.6	91.6	92.3	93.0

TOTAL NUMBER OF OBSERVATIONS

155

1225

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117

SAN CLEMENTE, CALIFORNIA

73-77

JAN

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	50.3	61.9	63.2	65.2	66.5	66.5	67.1	67.1	67.1	67.7	67.7	67.7	67.7	67.7
≥ 20000	52.9	65.2	66.5	68.4	69.7	69.7	70.3	70.3	70.3	71.0	71.0	71.0	71.0	71.0
≥ 18000	52.9	65.2	66.5	68.4	69.7	69.7	70.3	70.3	70.3	71.0	71.0	71.0	71.0	71.0
≥ 16000	52.9	65.2	66.5	68.4	69.7	69.7	70.3	70.3	70.3	71.0	71.0	71.0	71.0	71.0
≥ 14000	52.9	65.2	66.5	68.4	69.7	69.7	70.3	70.3	70.3	71.0	71.0	71.0	71.0	71.0
≥ 12000	52.9	65.2	66.5	68.4	69.7	69.7	70.3	70.3	70.3	71.0	71.0	71.0	71.0	71.0
≥ 10000	52.9	65.2	66.5	68.4	69.7	69.7	70.3	70.3	70.3	71.0	71.0	71.0	71.0	71.0
≥ 9000	52.9	65.2	66.5	68.4	69.7	69.7	70.3	70.3	70.3	71.0	71.0	71.0	71.0	71.0
≥ 8000	52.9	65.2	66.5	68.4	69.7	69.7	70.3	70.3	70.3	71.0	71.0	71.0	71.0	71.0
≥ 7000	53.6	65.8	67.1	69.0	70.3	70.3	71.0	71.0	71.0	71.6	72.3	72.3	72.3	72.3
≥ 6000	54.8	67.1	68.4	70.3	71.6	71.6	72.3	72.3	72.3	72.9	73.6	73.6	73.6	73.6
≥ 5000	54.8	67.1	68.4	70.3	71.6	71.6	72.3	72.3	72.3	72.9	73.6	73.6	73.6	73.6
≥ 4500	54.8	67.1	68.4	70.3	71.6	71.6	72.3	72.3	72.3	72.9	73.6	73.6	73.6	73.6
≥ 4000	56.1	68.4	69.7	71.6	72.9	72.9	73.6	73.6	73.6	74.2	74.8	74.8	74.8	74.8
≥ 3500	58.1	70.3	71.6	73.6	74.8	74.8	75.5	75.5	75.5	76.1	76.8	76.8	76.8	76.8
≥ 3000	58.1	70.3	71.6	73.6	74.8	74.8	75.5	75.5	75.5	76.1	76.8	76.8	76.8	76.8
≥ 2500	58.7	71.0	72.3	74.2	75.5	75.5	76.1	76.1	76.1	76.8	77.4	77.4	77.4	77.4
≥ 2000	61.3	73.6	75.5	78.1	79.4	79.4	80.0	80.0	80.0	80.7	81.3	81.3	81.3	81.3
≥ 1800	61.3	74.2	76.1	78.7	80.0	80.0	80.7	80.7	80.7	81.3	81.9	81.9	81.9	81.9
≥ 1500	62.6	75.5	77.4	80.0	81.3	81.3	81.9	81.9	81.9	82.6	83.2	83.2	83.2	83.2
≥ 1200	63.2	76.1	78.1	81.3	82.6	82.6	83.2	83.2	83.2	83.9	84.5	84.5	84.5	84.5
≥ 1000	64.5	78.1	80.7	83.9	85.2	85.2	86.5	86.5	86.5	87.1	87.7	87.7	87.7	87.7
≥ 900	64.5	78.1	80.7	83.9	85.2	85.2	86.5	86.5	86.5	87.1	87.7	87.7	87.7	87.7
≥ 800	65.2	78.7	83.2	86.5	87.7	87.7	89.0	89.0	89.0	89.7	90.3	90.3	90.3	90.3
≥ 700	65.2	78.7	83.2	86.5	87.7	87.7	89.0	89.0	89.0	89.7	90.3	90.3	90.3	90.3
≥ 600	65.8	80.0	84.5	87.7	89.0	89.0	90.3	90.3	90.3	91.0	91.6	91.6	91.6	91.6
≥ 500	65.8	80.0	84.5	87.7	89.0	89.0	90.3	90.3	90.3	91.0	91.6	91.6	91.6	91.6
≥ 400	65.8	80.0	84.5	87.7	89.0	89.0	90.3	90.3	90.3	91.0	91.6	91.6	91.6	91.6
≥ 300	65.8	80.0	84.5	87.7	89.0	89.0	90.3	90.3	90.3	91.0	91.6	91.6	91.6	91.6
≥ 200	65.8	80.0	85.2	89.0	90.3	90.3	91.6	91.6	91.6	92.3	92.9	92.9	92.9	92.9
≥ 100	65.8	80.0	85.2	89.0	90.3	90.3	91.6	91.6	91.6	92.3	92.9	92.9	92.9	92.9
≥ 0	65.8	80.0	85.2	89.0	90.3	90.3	91.6	91.6	91.6	92.3	92.9	92.9	92.9	92.9

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

JAN

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)10
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING	54.2	59.4	60.7	60.7	61.9	61.9	63.2	63.2	63.2	63.2	63.2	63.2
≥ 20000	59.4	64.5	65.8	65.8	67.1	67.1	68.4	68.4	68.4	68.4	68.4	68.4
≥ 18000	59.4	64.5	65.8	65.8	67.1	67.1	68.4	68.4	68.4	68.4	68.4	68.4
≥ 16000	59.4	64.5	65.8	65.8	67.1	67.1	68.4	68.4	68.4	68.4	68.4	68.4
≥ 14000	59.4	65.2	66.5	66.5	67.7	67.7	69.0	69.0	69.0	69.0	69.0	69.0
≥ 12000	59.4	65.2	66.5	66.5	67.7	67.7	69.0	69.0	69.0	69.0	69.0	69.0
≥ 10000	61.3	67.1	68.4	68.4	69.7	69.7	71.0	71.0	71.0	71.0	71.0	71.0
≥ 9000	61.3	67.1	68.4	68.4	69.7	69.7	71.0	71.0	71.0	71.0	71.0	71.0
≥ 8000	62.6	68.4	70.3	70.3	71.6	71.6	72.9	72.9	72.9	72.9	72.9	72.9
≥ 7000	63.2	69.0	71.0	71.0	72.3	72.3	73.6	73.6	73.6	73.6	73.6	73.6
≥ 6000	63.2	69.0	71.0	71.0	72.3	72.3	73.6	73.6	73.6	73.6	73.6	73.6
≥ 5000	64.5	70.3	72.3	72.3	73.6	73.6	74.8	74.8	74.8	74.8	74.8	74.8
≥ 4500	64.5	70.3	72.3	72.3	73.6	73.6	74.8	74.8	74.8	74.8	74.8	74.8
≥ 4000	65.2	71.0	72.9	72.9	74.2	74.2	75.5	75.5	75.5	75.5	75.5	75.5
≥ 3500	65.2	71.0	72.9	72.9	74.2	74.2	75.5	75.5	75.5	75.5	75.5	75.5
≥ 3000	65.8	71.6	73.6	73.6	74.8	74.8	76.1	76.1	76.1	76.1	76.1	76.1
≥ 2500	67.1	72.9	74.8	74.8	76.1	76.1	77.4	77.4	77.4	77.4	77.4	77.4
≥ 2000	69.0	74.8	76.8	77.4	78.7	78.7	80.0	80.0	80.0	80.0	80.0	80.0
≥ 1800	69.7	76.1	78.1	78.7	80.0	80.0	81.3	81.3	81.3	81.3	81.3	81.3
≥ 1500	72.3	78.7	80.7	81.3	82.6	82.6	83.9	83.9	83.9	83.9	83.9	83.9
≥ 1200	74.8	82.6	84.5	85.2	86.5	86.5	87.7	87.7	87.7	87.7	87.7	87.7
≥ 1000	76.1	83.9	85.8	86.5	87.7	87.7	89.0	89.0	89.0	89.0	89.0	89.0
≥ 900	76.1	84.5	87.1	87.7	89.0	89.0	90.3	90.3	90.3	90.3	90.3	90.3
≥ 800	76.1	85.2	88.4	89.7	91.0	91.0	92.3	92.3	92.3	92.3	92.3	92.3
≥ 700	76.1	85.2	88.4	89.7	91.0	91.0	92.3	92.3	92.3	92.3	92.3	92.3
≥ 600	76.8	85.8	89.0	90.3	92.3	92.3	93.6	93.6	93.6	93.6	93.6	93.6
≥ 500	76.8	86.5	89.7	91.0	93.6	93.6	94.8	94.8	94.8	94.8	94.8	94.8
≥ 400	76.8	86.5	90.3	91.6	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5
≥ 300	76.8	86.5	90.3	91.6	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5
≥ 200	76.8	86.5	90.3	91.6	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5
≥ 100	76.8	86.5	90.3	91.6	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5
0	76.8	86.5	90.3	91.6	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5

TOTAL NUMBER OF OBSERVATIONS

155

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

JAN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	58.7	59.4	61.3	61.3	61.9	61.9	62.6	63.9	63.9	64.5	65.2	65.2	65.2
≥ 20000	61.9	63.2	65.2	65.2	66.5	66.5	67.1	68.4	68.4	69.0	69.7	69.7	69.7
AI 18000	61.9	63.2	65.2	65.2	66.5	66.5	67.1	68.4	68.4	69.0	69.7	69.7	69.7
AI 16000	61.9	63.2	65.2	65.2	66.5	66.5	67.1	68.4	68.4	69.0	69.7	69.7	69.7
AI 14000	61.9	63.2	65.2	65.2	66.5	66.5	67.1	68.4	68.4	69.0	69.7	69.7	69.7
AI 12000	61.9	63.2	65.2	65.2	66.5	66.5	67.1	68.4	68.4	69.0	69.7	69.7	69.7
AI 10000	62.6	63.9	65.8	66.5	67.1	67.1	67.7	69.0	69.0	69.7	70.3	70.3	70.3
AI 9000	62.6	63.9	65.8	66.5	67.1	67.1	67.7	69.0	69.0	69.7	70.3	70.3	70.3
AI 8000	63.9	65.8	67.7	68.4	69.0	69.0	69.7	71.0	71.0	71.6	72.3	72.3	72.3
AI 7000	65.2	67.1	69.0	69.7	70.3	70.3	71.0	72.3	72.3	72.9	73.6	73.6	73.6
AI 6000	65.8	67.7	69.7	70.3	71.0	71.0	71.6	72.9	72.9	73.6	74.2	74.2	74.2
AI 5000	67.1	69.0	71.0	71.6	72.3	72.3	72.9	74.2	74.2	74.8	75.5	75.5	75.5
AI 4500	67.1	69.0	71.0	71.6	72.3	72.3	72.9	74.2	74.2	74.8	75.5	75.5	75.5
AI 4000	68.4	70.3	72.3	72.9	73.6	73.6	74.2	75.5	75.5	76.1	76.8	76.8	76.8
AI 3500	69.0	71.0	72.9	73.6	74.2	74.2	74.8	75.5	75.5	76.1	76.8	76.8	76.8
AI 3000	71.0	72.9	74.8	75.5	76.1	76.1	76.8	78.1	78.1	78.7	79.4	79.4	79.4
AI 2500	73.6	75.5	78.1	78.7	79.4	79.4	80.0	81.3	81.3	81.9	82.6	82.6	82.6
AI 2000	74.8	76.8	79.4	80.0	80.7	80.7	81.3	82.6	82.6	83.2	83.9	83.9	83.9
AI 1800	74.8	77.4	80.0	80.7	81.3	81.3	81.9	83.2	83.2	83.9	84.5	84.5	84.5
AI 1500	77.4	80.0	82.6	83.2	83.9	83.9	84.5	85.8	85.8	86.5	87.1	87.1	87.1
AI 1200	78.1	80.7	83.2	83.9	84.5	84.5	85.2	86.5	86.5	87.1	87.7	87.7	87.7
AI 1000	80.0	83.2	85.8	87.1	87.7	87.7	88.4	90.3	90.3	91.0	91.6	91.6	91.6
AI 900	80.0	83.2	85.8	87.1	87.7	87.7	88.4	90.3	90.3	91.0	91.6	91.6	91.6
AI 800	80.0	83.2	85.8	87.1	87.7	87.7	88.4	90.3	90.3	91.0	91.6	91.6	91.6
AI 700	81.3	85.8	89.7	91.0	91.6	91.6	92.3	94.2	94.2	94.8	95.5	95.5	95.5
AI 600	82.6	87.1	91.0	92.3	92.9	92.9	93.6	95.5	95.5	96.1	96.8	96.8	96.8
AI 500	82.6	87.1	91.0	92.3	93.6	93.6	94.2	96.8	96.8	97.4	98.1	98.1	98.1
AI 400	82.6	87.1	91.0	92.3	93.6	93.6	94.2	96.8	96.8	97.4	98.1	98.1	98.1
AI 300	82.6	87.1	91.0	92.3	93.6	93.6	94.2	96.8	96.8	97.4	98.1	98.1	98.1
AI 200	82.6	87.1	91.0	92.3	93.6	93.6	94.2	96.8	96.8	97.4	98.1	98.1	98.1
AI 100	82.6	87.1	91.0	92.3	93.6	93.6	94.2	96.8	96.8	97.4	98.1	98.1	98.1
0	82.6	87.1	91.0	92.3	93.6	93.6	94.2	96.8	96.8	97.4	98.1	98.1	98.1

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

JAN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	56.1	57.4	58.1	58.7	60.0	60.0	60.0	60.7	60.7	60.7	60.7	60.7	60.7
≥ 20000	62.6	65.2	65.8	66.5	67.7	67.7	67.7	68.4	68.4	68.4	68.4	68.4	68.4
≥ 18000	62.6	65.2	65.8	67.1	68.4	68.4	68.4	69.0	69.0	69.0	69.0	69.0	69.0
≥ 16000	62.6	65.2	65.8	67.1	68.4	68.4	68.4	69.0	69.0	69.0	69.0	69.0	69.0
≥ 14000	62.6	65.2	65.8	67.1	68.4	68.4	68.4	69.0	69.0	69.0	69.0	69.0	69.0
≥ 12000	62.6	65.2	65.8	67.1	68.4	68.4	68.4	69.0	69.0	69.0	69.0	69.0	69.0
≥ 10000	63.2	65.8	66.5	67.7	69.0	69.0	69.0	69.7	69.7	69.7	69.7	69.7	69.7
≥ 9000	63.9	66.5	67.1	68.4	69.7	69.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3
≥ 8000	64.5	67.1	67.7	69.0	70.3	70.3	70.3	71.0	71.0	71.0	71.0	71.0	71.0
≥ 7000	65.8	68.4	69.0	70.3	71.6	71.6	71.6	72.3	72.3	72.3	72.3	72.3	72.3
≥ 6000	65.8	68.4	69.0	70.3	71.6	71.6	71.6	72.3	72.3	72.3	72.3	72.3	72.3
≥ 5000	67.1	69.7	70.3	71.6	72.9	72.9	72.9	73.6	73.6	73.6	73.6	73.6	73.6
≥ 4500	67.1	69.7	70.3	71.6	72.9	72.9	72.9	73.6	73.6	73.6	73.6	73.6	73.6
≥ 4000	68.4	71.0	71.6	72.9	74.2	74.2	74.2	74.8	74.8	74.8	74.8	74.8	74.8
≥ 3500	69.7	72.3	72.9	74.2	75.5	75.5	75.5	76.1	76.1	76.1	76.1	76.1	76.1
≥ 3000	72.9	75.5	76.1	77.4	78.7	78.7	78.7	79.4	79.4	79.4	79.4	79.4	79.4
≥ 2500	75.5	78.7	79.4	80.7	81.9	81.9	81.9	82.6	82.6	82.6	82.6	82.6	82.6
≥ 2000	76.8	80.0	80.7	81.9	83.2	83.2	83.2	83.9	83.9	83.9	83.9	83.9	83.9
≥ 1800	76.8	80.7	81.3	82.6	83.9	83.9	83.9	84.5	84.5	84.5	84.5	84.5	84.5
≥ 1500	78.7	82.6	83.2	84.5	85.8	85.8	85.8	86.5	86.5	86.5	86.5	86.5	86.5
≥ 1200	79.4	83.2	83.9	85.2	86.5	86.5	86.5	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1000	79.4	83.9	84.5	85.8	87.1	87.1	87.1	87.7	87.7	87.7	87.7	87.7	87.7
≥ 900	79.4	83.9	84.5	85.8	87.1	87.1	87.1	87.7	87.7	87.7	87.7	87.7	87.7
≥ 800	80.0	85.2	85.8	87.7	89.7	89.7	89.7	90.3	90.3	90.3	90.3	90.3	90.3
≥ 700	80.7	86.5	87.7	89.7	91.6	91.6	91.6	92.3	92.3	92.3	92.3	92.3	92.3
≥ 600	80.7	86.5	87.7	89.7	92.3	92.3	92.3	92.9	92.9	92.9	92.9	92.9	92.9
≥ 500	81.3	87.1	89.0	91.0	93.6	93.6	93.6	94.2	94.2	94.2	94.2	94.2	94.2
≥ 400	81.3	87.7	89.7	91.6	94.2	94.2	94.2	94.8	94.8	94.8	94.8	94.8	94.8
≥ 300	81.3	87.7	89.7	91.6	94.2	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5
≥ 200	81.3	87.7	89.7	91.6	94.2	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5
≥ 100	81.3	87.7	89.7	91.6	94.2	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5
0	81.3	87.7	89.7	91.6	94.2	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

JAN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	48.4	66.5	68.4	69.0	69.0	69.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 20000	50.3	68.4	70.3	71.0	71.0	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 18000	50.3	68.4	70.3	71.0	71.0	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 16000	50.3	69.0	71.0	71.6	71.6	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 14000	50.3	69.0	71.0	71.6	71.6	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 12000	51.0	69.7	71.6	72.3	72.3	72.3	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 10000	51.6	70.3	72.3	72.9	72.9	72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 9000	52.3	71.0	72.9	73.6	73.6	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 8000	52.3	72.3	74.2	74.8	74.8	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 7000	52.9	73.6	75.5	76.1	76.1	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 6000	52.9	73.6	75.5	76.1	76.1	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 5000	52.9	73.6	75.5	76.1	76.1	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 4500	52.9	73.6	75.5	76.1	76.1	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 4000	54.2	75.5	77.4	78.1	78.1	78.1	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 3500	54.8	76.1	78.1	78.7	78.7	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 3000	56.1	78.7	80.7	81.3	81.3	81.3	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 2500	56.1	78.7	81.3	81.9	81.9	81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 2000	56.8	80.0	82.6	83.2	83.2	83.2	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 1800	56.8	80.7	83.2	83.9	83.9	83.9	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 1500	57.4	81.3	83.9	84.5	84.5	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 1200	57.4	81.3	83.9	84.5	84.5	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 1000	58.1	83.2	86.5	87.1	87.1	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 900	58.1	83.2	86.5	87.1	87.1	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 800	59.4	85.2	88.4	89.0	89.0	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 700	59.4	85.2	88.4	89.0	89.0	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 600	59.4	85.2	89.0	89.7	89.7	89.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 500	60.0	86.5	91.0	91.6	91.6	91.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 400	60.0	86.5	91.0	91.6	91.6	91.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 300	60.0	86.5	91.0	91.6	91.6	91.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 200	60.0	86.5	91.0	91.6	91.6	91.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 100	60.0	86.5	91.0	91.6	91.6	91.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 0	60.0	86.5	91.0	91.6	91.6	91.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

JAN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	45.2	67.7	69.7	70.3	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 20000	45.8	68.4	70.3	71.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 18000	45.8	68.4	70.3	71.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 16000	45.8	68.4	70.3	71.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 14000	45.8	68.4	70.3	71.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 12000	45.8	68.4	70.3	71.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 10000	45.8	69.0	71.0	71.6	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 9000	45.8	69.0	71.0	71.6	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 8000	47.7	72.3	74.2	74.8	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 7000	48.4	73.6	75.5	76.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 6000	48.4	73.6	75.5	76.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 5000	48.4	73.6	75.5	76.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 4500	48.4	73.6	75.5	76.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 4000	49.0	74.8	76.8	77.4	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 3500	49.7	77.4	79.4	80.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 3000	49.7	77.4	79.4	80.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 2500	49.7	78.7	81.3	81.9	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 2000	49.7	79.4	81.9	82.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 1800	49.7	79.4	81.9	82.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 1500	51.6	81.9	84.5	85.2	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 1200	52.3	83.2	86.5	87.1	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 1000	52.9	83.9	87.1	87.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 900	52.9	83.9	87.1	87.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 800	53.6	86.5	89.7	90.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 700	53.6	86.5	89.7	90.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 600	53.6	86.5	90.3	91.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 500	53.6	87.1	91.6	93.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 400	53.6	87.1	91.6	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 300	53.6	87.1	91.6	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 200	53.6	87.1	91.6	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 100	53.6	87.1	91.6	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 0	53.6	87.1	91.6	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77
YEARS

JAN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	48.7	62.7	64.5	65.2	66.2	66.2	66.6	66.9	67.1	67.2	67.2	67.3	67.3	67.3	67.7
≥ 20000	51.2	65.8	67.6	68.4	69.4	69.4	69.8	70.0	70.4	70.5	70.5	70.6	70.6	70.6	71.1
≥ 18000	51.2	65.8	67.6	68.5	69.4	69.4	69.8	70.1	70.5	70.6	70.6	70.7	70.7	70.7	71.1
≥ 16000	51.2	65.9	67.7	68.6	69.5	69.5	69.9	70.2	70.6	70.7	70.7	70.7	70.7	70.7	71.2
≥ 14000	51.2	66.0	67.7	68.6	69.6	69.6	70.0	70.2	70.7	70.7	70.7	70.8	70.8	70.8	71.3
≥ 12000	51.4	66.1	67.9	68.8	69.8	69.8	70.2	70.4	70.8	70.9	70.9	71.0	71.0	71.0	71.5
≥ 10000	51.9	66.7	68.5	69.4	70.3	70.3	70.7	71.0	71.4	71.5	71.5	71.6	71.6	71.6	72.2
≥ 9000	52.0	66.9	68.6	69.5	70.5	70.5	70.9	71.1	71.5	71.7	71.7	71.8	71.8	71.8	72.3
≥ 8000	53.0	68.2	70.1	71.0	71.9	71.9	72.3	72.6	73.0	73.2	73.2	73.2	73.2	73.2	73.8
≥ 7000	53.8	69.3	71.1	72.0	73.0	73.0	73.4	73.6	74.0	74.2	74.2	74.3	74.3	74.3	74.8
≥ 6000	53.9	69.4	71.3	72.2	73.2	73.2	73.6	73.8	74.2	74.4	74.4	74.4	74.4	74.4	75.0
≥ 5000	54.6	70.2	72.1	73.0	74.0	74.0	74.4	74.6	75.0	75.2	75.2	75.2	75.2	75.2	75.8
≥ 4500	54.6	70.2	72.1	73.0	74.0	74.0	74.4	74.6	75.0	75.2	75.2	75.2	75.2	75.2	75.8
≥ 4000	55.6	71.4	73.2	74.1	75.1	75.1	75.5	75.7	76.1	76.3	76.3	76.4	76.4	76.4	76.9
≥ 3500	56.2	72.0	73.9	74.8	75.7	75.7	76.1	76.4	76.8	76.9	76.9	77.0	77.0	77.0	77.6
≥ 3000	57.3	73.6	75.5	76.4	77.3	77.3	77.7	78.0	78.4	78.6	78.6	78.6	78.6	78.6	79.2
≥ 2500	58.5	75.3	77.5	78.4	79.4	79.4	79.8	80.0	80.4	80.6	80.6	80.7	80.7	80.7	81.2
≥ 2000	59.8	77.4	79.8	80.8	81.8	81.8	82.2	82.4	82.8	83.0	83.0	83.1	83.1	83.1	83.6
≥ 1800	59.9	77.9	80.2	81.3	82.3	82.3	82.7	82.9	83.3	83.5	83.5	83.6	83.6	83.6	84.1
≥ 1500	61.5	79.9	82.3	83.3	84.3	84.3	84.7	84.9	85.3	85.5	85.5	85.6	85.6	85.7	86.2
≥ 1200	62.2	80.9	83.3	84.4	85.4	85.4	85.8	86.1	86.5	86.6	86.6	86.7	86.7	86.8	87.3
≥ 1000	62.9	82.5	85.1	86.3	87.3	87.3	87.8	88.2	88.6	88.7	88.7	88.8	88.8	88.9	89.4
≥ 900	62.9	82.7	85.4	86.6	87.6	87.6	88.2	88.5	88.9	89.0	89.0	89.1	89.1	89.2	89.8
≥ 800	63.5	84.2	87.3	88.7	89.8	89.8	90.3	90.7	91.1	91.2	91.2	91.3	91.3	91.4	91.9
≥ 700	63.7	84.5	87.6	89.2	90.3	90.3	90.9	91.2	91.6	91.8	91.8	91.9	91.9	91.9	92.5
≥ 600	64.0	85.1	88.6	90.2	91.5	91.5	92.0	92.4	92.8	93.0	93.0	93.1	93.1	93.2	93.7
≥ 500	64.2	85.7	89.4	91.1	92.7	92.7	93.3	93.5	94.0	94.4	94.5	94.6	94.6	94.7	95.2
≥ 400	64.2	85.7	89.6	91.3	93.1	93.1	94.0	94.6	95.2	95.4	95.4	95.5	95.5	95.6	96.1
≥ 300	64.2	85.7	89.6	91.4	93.2	93.2	94.2	94.8	95.5	95.7	95.7	95.7	95.7	95.8	96.4
≥ 200	64.2	85.7	89.7	91.5	93.2	93.2	94.3	95.0	95.8	96.0	96.0	96.1	96.1	96.5	97.2
≥ 100	64.2	85.7	89.7	91.5	93.2	93.2	94.3	95.0	95.8	96.0	96.0	96.3	96.3	96.7	98.9
0	64.2	85.7	89.7	91.5	93.2	93.2	94.3	95.0	95.8	96.0	96.0	96.3	96.3	96.7	100.0

TOTAL NUMBER OF OBSERVATIONS

1240

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

FEB
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)01
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	36.9	63.1	63.1	63.1	63.8	63.8	63.8	63.8	63.8	64.5	64.5	64.5	65.3
≥ 20000	38.3	65.3	65.3	65.3	66.0	66.0	66.0	66.0	66.0	66.7	66.7	66.7	67.4
18000	38.3	65.3	65.3	65.3	66.0	66.0	66.0	66.0	66.0	66.7	66.7	66.7	67.4
16000	38.3	65.3	65.3	65.3	66.0	66.0	66.0	66.0	66.0	66.7	66.7	66.7	67.4
14000	38.3	65.3	65.3	65.3	66.0	66.0	66.0	66.0	66.0	66.7	66.7	66.7	67.4
12000	38.3	65.3	65.3	65.3	66.0	66.0	66.0	66.0	66.0	66.7	66.7	66.7	67.4
10000	38.3	65.3	65.3	65.3	66.0	66.0	66.0	66.0	66.0	66.7	66.7	66.7	67.4
9000	38.3	65.3	65.3	65.3	66.0	66.0	66.0	66.0	66.0	66.7	66.7	66.7	67.4
8000	38.3	65.3	65.3	65.3	66.0	66.0	66.0	66.0	66.0	66.7	66.7	66.7	67.4
7000	39.0	66.0	66.0	66.0	66.7	66.7	66.7	66.7	66.7	67.4	67.4	67.4	68.1
6000	39.0	66.0	66.0	66.0	66.7	66.7	66.7	66.7	66.7	67.4	67.4	67.4	68.1
5000	39.0	66.0	66.0	66.0	66.7	66.7	66.7	66.7	66.7	67.4	67.4	67.4	68.1
4500	39.0	66.0	66.0	66.0	66.7	66.7	66.7	66.7	66.7	67.4	67.4	67.4	68.1
4000	39.0	68.1	68.1	68.8	69.5	69.5	69.5	69.5	69.5	70.2	70.2	70.2	70.9
3500	39.0	68.1	68.1	68.8	69.5	69.5	69.5	69.5	69.5	70.2	70.2	70.2	70.9
3000	39.0	68.1	68.1	68.8	69.5	69.5	69.5	69.5	69.5	70.2	70.2	70.2	70.9
2500	39.0	68.8	69.5	70.2	70.9	70.9	70.9	70.9	70.9	71.6	71.6	71.6	72.3
2000	39.7	70.2	71.6	72.3	73.1	73.1	73.1	73.1	73.1	73.8	73.8	73.8	74.5
1800	39.7	70.2	71.6	72.3	73.1	73.1	73.1	73.1	73.1	73.8	73.8	73.8	74.5
1500	40.4	70.9	73.1	73.8	75.2	75.2	75.2	75.2	75.2	75.9	75.9	75.9	76.6
1200	41.1	72.3	74.5	75.2	76.6	76.6	76.6	76.6	76.6	77.3	77.3	77.3	78.0
1000	44.0	77.3	79.4	80.1	81.6	81.6	81.6	81.6	81.6	82.3	82.3	82.3	83.0
900	44.7	78.0	80.1	80.9	82.3	82.3	82.3	82.3	82.3	83.0	83.0	83.0	83.7
800	44.7	78.7	81.6	82.3	84.4	84.4	84.4	84.4	84.4	85.1	85.1	85.1	85.8
700	45.4	80.1	83.0	83.7	85.8	85.8	85.8	85.8	85.8	86.5	86.5	86.5	87.2
600	45.4	81.6	85.1	85.8	87.9	87.9	87.9	87.9	87.9	88.7	88.7	88.7	89.4
500	45.4	83.0	86.5	87.2	89.4	89.4	89.4	89.4	89.4	90.8	91.5	91.5	92.9
400	46.1	84.4	87.9	89.4	91.5	91.5	91.5	91.5	91.5	93.6	94.3	94.3	95.7
300	46.1	84.4	87.9	89.4	91.5	91.5	91.5	91.5	91.5	93.6	94.3	94.3	95.7
200	46.1	84.4	87.9	89.4	91.5	91.5	91.5	91.5	91.5	93.6	94.3	94.3	95.7
100	46.1	84.4	87.9	89.4	91.5	91.5	91.5	91.5	91.5	93.6	94.3	94.3	95.7
0	46.1	84.4	87.9	89.4	91.5	91.5	91.5	91.5	91.5	93.6	94.3	94.3	95.7

TOTAL NUMBER OF OBSERVATIONS

141

CEILING VERSUS VISIBILITY

93117

SAN CLEMENTE, CALIFORNIA

73-77

FEB

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING	34.8	58.9	59.6	59.6	60.3	60.3	61.0	61.0	61.0	61.7	61.7
≥ 20000	36.2	61.7	62.4	62.4	63.1	63.1	63.8	63.8	63.8	64.5	64.5
≥ 18000	36.2	61.7	62.4	62.4	63.1	63.1	63.8	63.8	63.8	64.5	64.5
≥ 16000	36.2	61.7	62.4	62.4	63.1	63.1	63.8	63.8	63.8	64.5	64.5
≥ 14000	36.2	61.7	62.4	62.4	63.1	63.1	63.8	63.8	63.8	64.5	64.5
≥ 12000	36.2	61.7	62.4	62.4	63.1	63.1	63.8	63.8	63.8	64.5	64.5
≥ 10000	36.2	61.7	62.4	62.4	63.1	63.1	63.8	63.8	63.8	64.5	64.5
≥ 9000	36.2	61.7	62.4	62.4	63.1	63.1	63.8	63.8	63.8	64.5	64.5
≥ 8000	36.2	61.7	62.4	62.4	63.1	63.1	63.8	63.8	63.8	64.5	64.5
≥ 7000	36.2	61.7	62.4	62.4	63.1	63.1	63.8	63.8	63.8	64.5	64.5
≥ 6000	36.2	61.7	62.4	62.4	63.1	63.1	63.8	63.8	63.8	64.5	64.5
≥ 5000	36.2	61.7	62.4	62.4	63.1	63.1	63.8	63.8	63.8	64.5	64.5
≥ 4500	36.9	62.4	63.1	63.1	63.8	63.8	64.5	64.5	64.5	65.3	65.3
≥ 4000	36.9	65.3	66.0	66.0	66.7	66.7	67.4	67.4	67.4	68.1	68.1
≥ 3500	36.9	65.3	66.0	66.0	66.7	66.7	67.4	67.4	67.4	68.1	68.1
≥ 3000	36.9	65.3	66.0	66.0	66.7	66.7	67.4	67.4	67.4	68.1	68.1
≥ 2500	36.9	66.0	66.7	66.7	67.4	67.4	68.1	68.1	68.1	68.8	68.8
≥ 2000	36.9	67.4	68.1	68.1	68.8	68.8	69.5	69.5	69.5	70.2	70.2
≥ 1800	37.6	68.1	68.8	68.8	69.5	69.5	70.2	70.2	70.2	70.9	70.9
≥ 1500	38.3	70.2	70.9	70.9	72.3	72.3	73.1	73.1	73.1	73.8	73.8
≥ 1200	38.3	70.9	71.6	71.6	73.1	73.1	73.8	73.8	73.8	74.5	74.5
≥ 1000	41.1	74.5	75.9	76.6	78.0	78.0	78.7	78.7	78.7	79.4	79.4
≥ 900	41.1	74.5	75.9	76.6	78.0	78.0	78.7	78.7	78.7	79.4	79.4
≥ 800	41.8	77.3	80.1	80.9	82.3	82.3	83.7	83.7	83.7	84.4	84.4
≥ 700	41.8	78.0	81.6	82.3	83.7	83.7	85.8	85.8	85.8	86.5	86.5
≥ 600	42.6	79.4	83.0	83.7	85.1	85.1	87.2	87.2	87.2	87.9	87.9
≥ 500	42.6	80.9	84.4	85.1	86.5	86.5	90.1	90.1	90.1	91.5	91.5
≥ 400	42.6	80.9	84.4	86.5	88.7	88.7	92.2	92.2	92.2	93.6	93.6
≥ 300	42.6	81.6	85.8	87.9	90.1	90.1	94.3	94.3	94.3	96.5	96.5
≥ 200	42.6	81.6	85.8	87.9	90.1	90.1	95.0	95.0	95.0	97.9	97.9
≥ 100	42.6	81.6	86.5	88.7	90.8	90.8	95.7	95.7	95.7	98.6	98.6
0	42.6	81.6	86.5	88.7	90.8	90.8	95.7	95.7	95.7	98.6	98.6

TOTAL NUMBER OF OBSERVATIONS

141

CEILING VERSUS VISIBILITY

WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION NAME
SAN CLEMENTE, CALIFORNIA

73-77

YEARS

FEB

MOUTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	37.6	48.9	48.9	50.4	50.4	50.4	51.1	51.1	51.1	51.1	51.8	52.5	52.5
≥ 20000	39.7	52.5	52.5	53.9	53.9	53.9	54.6	54.6	54.6	54.6	55.3	56.0	56.7
≥ 18000	39.7	52.5	52.5	53.9	53.9	53.9	54.6	54.6	54.6	54.6	55.3	56.0	56.7
≥ 16000	39.7	52.5	52.5	53.9	53.9	53.9	54.6	54.6	54.6	54.6	55.3	56.0	56.7
≥ 14000	39.7	52.5	52.5	53.9	53.9	53.9	54.6	54.6	54.6	54.6	55.3	56.0	56.7
≥ 12000	40.4	53.2	53.2	54.6	54.6	54.6	55.3	55.3	55.3	55.3	56.0	56.7	57.5
≥ 10000	40.4	53.2	53.2	54.6	54.6	54.6	55.3	55.3	55.3	55.3	56.0	56.7	57.5
≥ 9000	40.4	53.9	53.9	55.3	55.3	55.3	56.0	56.0	56.0	56.0	56.7	57.5	58.2
≥ 8000	41.1	55.3	55.3	56.7	56.7	56.7	57.5	57.5	57.5	57.5	58.2	58.9	59.6
≥ 7000	41.8	57.5	57.5	58.9	58.9	58.9	59.6	59.6	59.6	59.6	60.3	61.0	61.7
≥ 6000	41.8	57.5	57.5	58.9	58.9	58.9	59.6	59.6	59.6	59.6	60.3	61.0	61.7
≥ 5000	41.8	58.2	58.2	59.6	59.6	59.6	60.3	60.3	60.3	60.3	61.0	61.7	62.4
≥ 4500	43.3	59.6	59.6	61.0	61.0	61.0	61.7	61.7	61.7	61.7	62.4	63.1	63.8
≥ 4000	44.0	60.3	60.3	61.7	61.7	61.7	62.4	62.4	62.4	62.4	63.1	63.8	64.5
≥ 3500	44.0	61.7	61.7	63.1	63.1	63.1	63.8	63.8	63.8	63.8	64.5	65.3	66.0
≥ 3000	44.0	61.7	61.7	63.1	63.1	63.1	63.8	63.8	63.8	63.8	64.5	65.3	66.0
≥ 2500	45.4	63.1	63.1	64.5	64.5	64.5	65.3	65.3	65.3	65.3	66.0	66.7	67.4
≥ 2000	47.5	65.3	65.3	66.7	66.7	66.7	67.4	67.4	67.4	67.4	68.1	68.8	69.5
≥ 1800	48.2	66.0	66.0	67.4	67.4	67.4	68.1	68.1	68.1	68.1	68.8	69.5	70.2
≥ 1500	49.7	68.1	68.1	69.5	69.5	69.5	70.2	70.2	70.2	70.2	70.9	71.6	72.3
≥ 1200	53.2	72.3	72.3	73.8	73.8	73.8	74.5	74.5	74.5	74.5	75.2	75.9	76.6
≥ 1000	56.0	76.6	76.6	78.0	78.0	78.0	79.4	79.4	79.4	79.4	80.9	81.6	82.3
≥ 900	56.0	76.6	76.6	78.0	78.0	78.0	79.4	79.4	79.4	79.4	80.9	81.6	82.3
≥ 800	56.7	79.4	79.4	80.9	80.9	80.9	81.6	81.6	81.6	81.6	82.3	83.0	83.7
≥ 700	56.7	79.4	79.4	80.9	80.9	80.9	81.6	81.6	81.6	81.6	82.3	83.0	83.7
≥ 600	57.5	81.6	81.6	83.0	83.0	83.0	84.4	84.4	84.4	84.4	85.1	85.8	86.5
≥ 500	58.2	83.0	83.0	84.4	84.4	84.4	85.1	85.1	85.1	85.1	85.8	86.5	87.2
≥ 400	58.9	83.7	83.7	85.1	85.1	85.1	86.5	86.5	86.5	86.5	87.2	87.9	88.6
≥ 300	58.9	83.7	83.7	85.1	85.1	85.1	86.5	86.5	86.5	86.5	87.2	87.9	88.6
≥ 200	58.9	83.7	83.7	85.1	85.1	85.1	86.5	86.5	86.5	86.5	87.2	87.9	88.6
≥ 100	58.9	83.7	83.7	85.1	85.1	85.1	86.5	86.5	86.5	86.5	87.2	87.9	88.6
≥ 0	58.9	83.7	83.7	85.1	85.1	85.1	86.5	86.5	86.5	86.5	87.2	87.9	88.6

TOTAL NUMBER OF OBSERVATIONS

141

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

FEB
MONTH

10
HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	45.4	51.1	51.8	52.5	53.9	53.9	53.9	54.0	54.6	56.0	56.7	56.7	56.7
≥ 20000	51.1	57.5	58.2	58.9	60.3	60.3	60.3	61.0	61.0	62.4	63.1	63.1	63.1
≥ 18000	51.1	57.5	58.2	58.9	60.3	60.3	60.3	61.0	61.0	62.4	63.1	63.1	63.1
≥ 16000	51.1	57.5	58.2	58.9	60.3	60.3	60.3	61.0	61.0	62.4	63.1	63.1	63.1
≥ 14000	51.8	58.2	58.9	59.6	61.0	61.0	61.0	61.7	61.7	63.1	63.8	63.8	63.8
≥ 12000	53.9	60.3	61.0	61.7	63.1	63.1	63.1	63.8	63.8	65.3	66.0	66.0	66.0
≥ 10000	54.6	61.0	62.4	63.1	64.5	64.5	64.5	65.3	65.3	66.7	67.4	67.4	67.4
≥ 8000	55.3	63.1	64.5	65.3	66.7	66.7	66.7	67.4	67.4	68.8	69.5	69.5	69.5
≥ 6000	56.0	63.8	65.3	66.7	68.1	68.1	68.1	68.8	68.8	70.2	70.9	70.9	70.9
≥ 5000	56.0	63.8	65.3	66.7	68.1	68.1	68.1	68.8	68.8	70.2	70.9	70.9	70.9
≥ 4500	56.7	66.0	67.4	68.8	70.2	70.2	70.2	70.9	70.9	72.3	73.1	73.1	73.1
≥ 4000	58.2	67.4	68.8	70.2	71.6	71.6	71.6	72.3	72.3	73.8	74.5	74.5	74.5
≥ 3500	58.9	68.8	70.2	71.6	73.1	73.1	73.1	73.8	73.8	75.2	75.9	75.9	75.9
≥ 3000	58.9	68.8	70.2	71.6	73.1	73.1	73.1	73.8	73.8	75.2	75.9	75.9	75.9
≥ 2500	60.3	70.9	72.3	73.8	75.2	75.2	75.2	75.9	75.9	77.3	78.0	78.0	78.0
≥ 2000	60.3	70.9	72.3	73.8	75.2	75.2	75.2	75.9	75.9	77.3	78.0	78.0	78.0
≥ 1800	63.1	74.5	75.9	77.3	78.7	78.7	78.7	79.4	79.4	80.9	81.6	81.6	81.6
≥ 1500	66.7	78.7	80.1	81.6	83.0	83.0	83.0	83.7	83.7	85.1	85.8	85.8	85.8
≥ 1200	68.8	81.6	83.7	85.1	86.5	86.5	86.5	87.2	87.2	88.7	89.4	89.4	89.4
≥ 1000	68.8	81.6	83.7	85.1	86.5	86.5	86.5	87.2	87.2	88.7	89.4	89.4	89.4
≥ 900	69.5	82.3	84.4	85.8	87.2	87.2	87.2	87.9	87.9	89.4	90.1	90.8	90.8
≥ 800	70.2	83.7	85.8	87.2	88.7	88.7	88.7	89.4	89.4	90.1	90.8	90.8	90.8
≥ 700	70.2	85.1	87.2	89.4	91.5	91.5	91.5	92.2	92.2	93.8	94.5	95.2	95.2
≥ 600	70.2	85.1	87.2	89.4	91.5	91.5	91.5	92.2	92.2	93.8	94.5	95.2	95.2
≥ 500	70.2	85.8	88.7	90.8	92.9	92.9	92.9	93.6	93.6	95.0	95.7	96.4	96.4
≥ 400	70.2	85.8	88.7	90.8	92.9	92.9	92.9	93.6	93.6	95.0	95.7	96.4	96.4
≥ 300	70.2	85.8	88.7	90.8	92.9	92.9	92.9	93.6	93.6	95.0	95.7	96.4	96.4
≥ 200	70.2	85.8	88.7	90.8	92.9	92.9	92.9	93.6	93.6	95.0	95.7	96.4	96.4
≥ 100	70.2	85.8	88.7	90.8	92.9	92.9	92.9	93.6	93.6	95.0	95.7	96.4	96.4
0	70.2	85.8	88.7	90.8	92.9	92.9	92.9	93.6	93.6	95.0	95.7	96.4	96.4

141

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

FEB
MONTH

13

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	52.5	61.7	62.4	63.1	63.1	63.1	63.1	63.8	63.8	64.5	64.5	64.5	64.5	64.5	64.5
≥ 20000	55.3	65.3	66.0	66.7	67.4	67.4	67.4	68.1	68.1	68.8	68.8	68.8	68.8	68.8	68.8
≥ 18000	55.3	65.3	66.0	66.7	67.4	67.4	67.4	68.1	68.1	68.8	68.8	68.8	68.8	68.8	68.8
≥ 16000	55.3	65.3	66.0	66.7	67.4	67.4	67.4	68.1	68.1	68.8	68.8	68.8	68.8	68.8	68.8
≥ 14000	55.3	65.3	66.0	66.7	67.4	67.4	67.4	68.1	68.1	68.8	68.8	68.8	68.8	68.8	68.8
≥ 12000	56.7	66.7	67.4	68.1	68.8	68.8	69.5	69.5	69.5	70.2	70.2	70.2	70.2	70.2	70.2
≥ 10000	57.5	67.4	68.1	68.8	70.2	70.2	70.9	70.9	70.9	71.6	71.6	71.6	71.6	71.6	71.6
≥ 9000	58.2	68.1	68.8	69.5	70.9	70.9	71.6	71.6	71.6	72.3	72.3	72.3	72.3	72.3	72.3
≥ 8000	60.3	70.2	70.9	71.6	73.1	73.1	73.8	73.8	73.8	74.5	74.5	74.5	74.5	74.5	74.5
≥ 7000	60.3	70.2	70.9	71.6	73.1	73.1	73.8	73.8	73.8	74.5	74.5	74.5	74.5	74.5	74.5
≥ 6000	60.3	70.2	70.9	71.6	73.1	73.1	73.8	73.8	73.8	74.5	74.5	74.5	74.5	74.5	74.5
≥ 5000	60.3	70.2	70.9	71.6	73.1	73.1	73.8	73.8	73.8	74.5	74.5	74.5	74.5	74.5	74.5
≥ 4500	61.0	70.9	71.6	73.1	74.5	74.5	75.2	75.2	75.2	75.9	75.9	75.9	75.9	75.9	75.9
≥ 4000	61.0	70.9	71.6	73.1	74.5	74.5	75.2	75.2	75.2	75.9	75.9	75.9	75.9	75.9	75.9
≥ 3500	61.0	70.9	71.6	73.1	74.5	74.5	75.2	75.2	75.2	75.9	75.9	75.9	75.9	75.9	75.9
≥ 3000	61.0	70.9	71.6	73.1	74.5	74.5	75.2	75.2	75.2	75.9	75.9	75.9	75.9	75.9	75.9
≥ 2500	61.0	70.9	71.6	73.1	74.5	74.5	75.2	75.2	75.2	75.9	75.9	75.9	75.9	75.9	75.9
≥ 2000	61.0	70.9	71.6	73.1	74.5	74.5	75.2	75.2	75.2	75.9	75.9	75.9	75.9	75.9	75.9
≥ 1800	62.4	73.8	75.2	76.6	78.0	78.0	78.7	78.7	78.7	79.4	79.4	79.4	79.4	79.4	79.4
≥ 1500	63.8	75.2	76.6	78.0	79.4	79.4	80.1	80.1	80.1	80.9	80.9	80.9	80.9	80.9	80.9
≥ 1200	66.0	77.3	78.7	80.1	81.6	81.6	82.3	82.3	82.3	83.0	83.0	83.0	83.0	83.0	83.0
≥ 1000	68.1	81.6	83.0	84.4	85.8	85.8	86.5	86.5	86.5	87.2	87.2	87.2	87.2	87.2	87.2
≥ 900	68.1	81.6	83.0	84.4	85.8	85.8	86.5	86.5	86.5	87.2	87.2	87.2	87.2	87.2	87.2
≥ 800	69.5	83.7	85.1	86.5	87.9	87.9	88.6	88.6	88.6	89.4	89.4	89.4	89.4	89.4	89.4
≥ 700	69.5	83.7	85.1	86.5	87.9	87.9	88.6	88.6	88.6	89.4	89.4	89.4	89.4	89.4	89.4
≥ 600	69.5	83.7	85.1	86.5	87.9	87.9	88.6	88.6	88.6	89.4	89.4	89.4	89.4	89.4	89.4
≥ 500	70.9	86.5	88.7	90.8	92.2	92.2	92.9	92.9	92.9	93.6	93.6	93.6	93.6	93.6	93.6
≥ 400	70.9	86.5	88.7	90.8	92.2	92.2	92.9	92.9	92.9	93.6	93.6	93.6	93.6	93.6	93.6
≥ 300	70.9	86.5	88.7	90.8	92.2	92.2	92.9	92.9	92.9	93.6	93.6	93.6	93.6	93.6	93.6
≥ 200	70.9	86.5	88.7	90.8	92.2	92.2	92.9	92.9	92.9	93.6	93.6	93.6	93.6	93.6	93.6
≥ 100	70.9	86.5	88.7	90.8	92.2	92.2	92.9	92.9	92.9	93.6	93.6	93.6	93.6	93.6	93.6
0	70.9	86.5	88.7	90.8	92.2	92.2	92.9	92.9	92.9	93.6	93.6	93.6	93.6	93.6	93.6

TOTAL NUMBER OF OBSERVATIONS

141

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION
93117

STATION NAME
SAN CLEMENTE, CALIFORNIA

73-77

YEARS

MONTH
FEB

16

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ ¾	≥ ½	≥ 5/16
NO CEILING	51.1	60.3	60.3	60.3	60.3	60.3	60.3	61.0	61.0	61.0	61.0	61.0
≥ 20000	54.6	64.5	64.5	64.5	64.5	64.5	64.5	65.3	65.3	65.3	65.3	65.3
≥ 18000	54.6	64.5	64.5	64.5	64.5	64.5	64.5	65.3	65.3	65.3	65.3	65.3
≥ 16000	54.6	64.5	64.5	64.5	64.5	64.5	64.5	65.3	65.3	65.3	65.3	65.3
≥ 14000	54.6	64.5	64.5	64.5	64.5	64.5	64.5	66.0	66.0	66.0	66.0	66.0
≥ 12000	55.3	65.3	65.3	66.0	66.0	66.0	66.0	66.7	66.7	66.7	66.7	66.7
≥ 10000	56.0	66.0	66.0	66.7	67.4	67.4	67.4	68.1	68.1	68.1	68.1	68.1
≥ 9000	56.0	66.0	66.0	66.7	67.4	67.4	67.4	68.1	68.1	68.1	68.1	68.1
≥ 8000	56.0	66.0	66.0	66.7	67.4	67.4	67.4	68.1	68.1	68.1	68.1	68.1
≥ 7000	56.7	68.1	68.1	68.8	69.5	69.5	69.5	70.2	70.2	70.2	70.2	70.2
≥ 6000	58.2	69.5	69.5	70.2	70.9	70.9	70.9	71.6	71.6	71.6	71.6	71.6
≥ 5000	58.9	70.9	70.9	71.6	72.3	72.3	72.3	73.1	73.1	73.1	73.1	73.1
≥ 4500	58.9	70.9	70.9	71.6	72.3	72.3	72.3	73.1	73.1	73.1	73.1	73.1
≥ 4000	59.6	73.1	73.1	73.8	74.5	74.5	74.5	75.2	75.2	75.2	75.2	75.2
≥ 3500	59.6	73.1	73.1	73.8	74.5	74.5	74.5	75.2	75.2	75.2	75.2	75.2
≥ 3000	59.6	73.1	73.1	73.8	74.5	74.5	74.5	75.2	75.2	75.2	75.2	75.2
≥ 2500	61.0	74.5	74.5	75.2	75.9	75.9	75.9	76.6	76.6	76.6	76.6	76.6
≥ 2000	61.7	75.2	75.2	75.9	76.6	76.6	76.6	77.3	77.3	77.3	77.3	77.3
≥ 1800	62.4	75.9	75.9	76.6	77.3	77.3	77.3	78.0	78.0	78.0	78.0	78.0
≥ 1500	66.0	79.4	79.4	80.1	80.9	80.9	80.9	81.6	81.6	81.6	81.6	81.6
≥ 1200	66.7	81.6	81.6	82.3	83.0	83.0	83.0	83.7	83.7	83.7	83.7	83.7
≥ 1000	66.7	81.6	81.6	82.3	83.0	83.0	83.0	83.7	83.7	83.7	83.7	83.7
≥ 900	66.7	82.3	82.3	83.0	83.7	83.7	83.7	84.4	84.4	84.4	84.4	84.4
≥ 800	68.1	83.7	83.7	84.4	85.1	85.1	85.1	85.8	85.8	85.8	85.8	85.8
≥ 700	68.1	83.7	83.7	84.4	85.1	85.1	85.1	85.8	85.8	85.8	85.8	85.8
≥ 600	68.1	85.1	85.1	85.8	86.5	86.5	86.5	87.2	87.2	87.2	87.2	87.2
≥ 500	68.8	86.5	86.5	87.2	87.9	87.9	87.9	88.6	88.6	88.6	88.6	88.6
≥ 400	70.2	87.9	87.9	88.6	89.3	89.3	89.3	90.0	90.0	90.0	90.0	90.0
≥ 300	70.2	87.9	87.9	88.6	89.3	89.3	89.3	90.0	90.0	90.0	90.0	90.0
≥ 200	70.2	87.9	87.9	88.6	89.3	89.3	89.3	90.0	90.0	90.0	90.0	90.0
≥ 100	70.2	87.9	87.9	88.6	89.3	89.3	89.3	90.0	90.0	90.0	90.0	90.0
≥ 0	70.2	87.9	87.9	88.6	89.3	89.3	89.3	90.0	90.0	90.0	90.0	90.0

TOTAL NUMBER OF OBSERVATIONS

141

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

FEB
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	38.3	61.7	54.5	64.5	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 20000	40.4	64.5	67.4	67.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 18000	40.4	64.5	67.4	67.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 16000	40.4	64.5	67.4	67.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 14000	41.1	65.3	68.1	68.1	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 12000	41.8	66.0	68.8	68.8	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
≥ 10000	41.8	66.0	68.8	68.8	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
≥ 9000	41.8	66.0	68.8	68.8	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
≥ 8000	42.6	66.7	69.5	69.5	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
≥ 7000	43.3	67.4	70.2	70.2	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
≥ 6000	43.3	67.4	70.2	70.2	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
≥ 5000	44.0	68.1	70.9	70.9	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 4500	44.0	68.8	71.6	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 4000	44.0	70.9	73.8	73.8	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 3500	44.0	70.9	73.8	73.8	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 3000	44.0	70.9	73.8	73.8	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 2500	44.0	70.9	74.5	74.5	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 2000	44.7	71.6	75.2	75.2	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 1800	44.7	72.3	75.9	75.9	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 1500	46.1	74.5	78.0	78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 1200	46.8	75.9	79.4	79.4	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
≥ 1000	47.5	77.3	80.9	80.9	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 900	47.5	77.3	80.9	80.9	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 800	48.9	78.7	83.0	83.0	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 700	49.7	79.4	83.7	83.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 600	49.7	81.6	86.5	86.5	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 500	49.7	81.6	86.5	86.5	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 400	49.7	82.3	87.2	87.2	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 300	49.7	83.0	87.9	87.9	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 200	49.7	83.0	87.9	87.9	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 100	49.7	83.0	87.9	87.9	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 0	49.7	83.0	87.9	87.9	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5

TOTAL NUMBER OF OBSERVATIONS

141

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

FEB
MONTH
22

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	34.0	59.6	62.4	63.1	63.8	63.8	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 20000	35.5	62.4	65.3	66.0	66.7	66.7	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 18000	35.5	62.4	65.3	66.0	66.7	66.7	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 16000	35.5	62.4	65.3	66.0	66.7	66.7	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 14000	36.2	63.1	66.0	66.7	67.4	67.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 12000	36.2	63.1	66.0	66.7	67.4	67.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 10000	36.2	63.1	66.0	66.7	67.4	67.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 9000	36.2	63.1	66.0	66.7	67.4	67.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 8000	36.2	63.1	66.0	66.7	67.4	67.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 7000	36.2	64.5	67.4	68.1	68.8	68.8	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
≥ 6000	36.9	65.3	68.1	68.8	69.5	69.5	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
≥ 5000	36.9	65.3	68.1	68.8	69.5	69.5	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
≥ 4500	36.9	65.3	68.1	68.8	69.5	69.5	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
≥ 4000	36.9	67.4	70.2	70.9	71.6	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 3500	36.9	67.4	70.2	70.9	71.6	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 3000	36.9	67.4	70.2	70.9	71.6	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 2500	36.9	68.1	70.9	71.6	72.3	72.3	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥ 2000	37.6	68.8	71.6	72.3	73.1	73.1	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 1800	37.6	69.5	72.3	73.1	73.8	73.8	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 1500	39.7	72.3	75.9	76.6	77.3	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 1200	39.7	73.1	76.6	77.3	78.0	78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 1000	40.4	75.2	78.7	79.4	80.9	80.9	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 900	40.4	75.2	78.7	79.4	80.9	80.9	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 800	41.8	76.6	80.1	80.9	82.3	82.3	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 700	41.8	77.3	81.6	83.0	84.4	84.4	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 600	41.8	79.4	83.7	85.1	87.2	87.2	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 500	41.8	80.1	84.4	86.5	88.7	88.7	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 400	41.8	81.6	85.8	87.9	90.1	90.1	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 300	41.8	82.3	86.5	88.7	90.8	90.8	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 200	41.8	82.3	86.5	88.7	90.8	90.8	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 100	41.8	82.3	86.5	88.7	90.8	90.8	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
0	41.8	82.3	86.5	88.7	90.8	90.8	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5

TOTAL NUMBER OF OBSERVATIONS

141

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION
93117

STATION NAME
SAN CLEMENTE, CALIFORNIA

73-77

YEARS

FEB

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	41.3	58.2	59.1	59.6	60.1	60.1	60.5	60.6	60.6	61.1	61.3	61.3	61.4	61.4
≥ 20000	43.9	61.7	62.7	63.1	63.7	63.7	64.1	64.3	64.3	64.7	64.9	64.9	65.1	65.2
≥ 18000	43.9	61.7	62.7	63.1	63.7	63.7	64.1	64.3	64.3	64.7	64.9	64.9	65.1	65.2
≥ 16000	43.9	61.7	62.7	63.1	63.7	63.7	64.1	64.3	64.3	64.7	64.9	64.9	65.1	65.2
≥ 14000	44.2	62.0	62.9	63.5	64.1	64.1	64.5	64.6	64.6	65.1	65.3	65.3	65.4	65.5
≥ 12000	44.9	62.7	63.7	64.2	64.8	64.8	65.2	65.3	65.3	65.8	66.0	66.0	66.1	66.2
≥ 10000	45.1	62.9	64.0	64.5	65.3	65.3	65.7	65.9	65.9	66.3	66.5	66.5	66.7	66.8
≥ 9000	45.2	63.1	64.2	64.7	65.5	65.5	65.9	66.1	66.1	66.5	66.7	66.7	66.8	66.9
≥ 8000	45.5	63.7	64.7	65.3	66.1	66.1	66.4	66.6	66.6	67.0	67.2	67.2	67.4	67.5
≥ 7000	46.2	64.9	66.0	66.6	67.4	67.4	67.7	67.9	67.9	68.4	68.5	68.5	68.7	68.8
≥ 6000	46.5	65.2	66.2	66.9	67.7	67.7	68.1	68.3	68.3	68.7	68.9	68.9	69.1	69.2
≥ 5000	46.6	65.5	66.6	67.3	68.1	68.1	68.4	68.6	68.6	69.1	69.2	69.2	69.4	69.5
≥ 4500	47.0	66.1	67.1	67.8	68.6	68.6	69.0	69.2	69.2	69.6	69.8	69.8	70.0	70.3
≥ 4000	47.3	67.7	68.9	69.7	70.5	70.5	70.8	71.0	71.0	71.5	71.6	71.6	71.8	72.2
≥ 3500	47.4	68.1	69.2	70.0	70.8	70.8	71.2	71.4	71.4	71.8	72.0	72.0	72.2	72.5
≥ 3000	47.5	68.3	69.4	70.2	71.0	71.0	71.4	71.5	71.5	72.0	72.2	72.2	72.3	72.7
≥ 2500	47.9	69.1	70.4	71.2	72.0	72.0	72.3	72.5	72.5	73.0	73.1	73.1	73.3	73.7
≥ 2000	48.7	70.2	71.6	72.4	73.2	73.2	73.6	73.8	73.8	74.2	74.4	74.4	74.6	74.9
≥ 1800	49.1	70.8	72.3	73.1	73.9	73.9	74.2	74.4	74.4	74.8	75.0	75.0	75.2	75.5
≥ 1500	50.9	73.1	74.7	75.5	76.5	76.5	76.9	77.0	77.0	77.5	77.7	77.7	77.8	78.2
≥ 1200	52.3	75.3	76.9	77.7	78.7	78.7	79.1	79.3	79.3	79.7	79.9	79.9	80.1	80.4
≥ 1000	54.1	78.2	80.1	81.0	82.4	82.4	82.7	82.9	82.9	83.4	83.6	83.6	83.8	84.1
≥ 900	54.2	78.5	80.5	81.4	82.7	82.7	83.1	83.2	83.2	83.8	84.0	84.0	84.1	84.5
≥ 800	55.1	80.1	82.4	83.3	84.8	84.8	85.4	85.6	85.6	86.1	86.3	86.3	86.4	86.8
≥ 700	55.4	80.7	83.2	84.3	85.8	85.8	86.6	86.8	86.8	87.3	87.5	87.5	87.7	88.0
≥ 600	55.6	82.3	85.1	86.6	88.5	88.5	89.6	90.1	90.1	90.6	90.9	90.9	91.1	91.4
≥ 500	55.9	83.4	86.4	88.0	89.9	89.9	91.8	92.6	92.6	93.1	93.5	93.5	93.7	94.2
≥ 400	56.3	84.1	87.1	89.0	91.1	91.1	93.3	94.1	94.1	94.7	95.1	95.1	95.3	95.7
≥ 300	56.3	84.4	87.4	89.4	91.6	91.6	94.1	95.1	95.3	96.0	96.6	96.6	96.8	97.3
≥ 200	56.3	84.4	87.4	89.4	91.6	91.6	94.4	95.6	95.7	96.5	97.3	97.3	97.5	98.2
≥ 100	56.3	84.4	87.5	89.5	91.7	91.7	94.5	95.7	95.9	96.7	97.5	97.5	98.0	99.1
0	56.3	84.4	87.5	89.5	91.7	91.7	94.5	95.7	95.9	96.7	97.5	97.5	98.1	100.0

TOTAL NUMBER OF OBSERVATIONS

1126

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

MAR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	43.9	65.2	65.2	65.2	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 20000	43.9	65.8	65.8	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 18000	43.9	65.8	65.8	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 16000	43.9	65.8	65.8	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 14000	43.9	65.8	65.8	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 12000	43.9	65.8	65.8	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 10000	44.5	66.5	66.5	66.5	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 9000	44.5	66.5	66.5	66.5	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 8000	44.5	66.5	66.5	66.5	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 7000	44.5	66.5	66.5	66.5	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 6000	45.2	67.1	67.1	67.1	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 5000	45.2	67.1	67.1	67.1	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 4500	45.2	67.1	67.1	67.1	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 4000	47.1	69.7	69.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 3500	47.7	70.3	70.3	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 3000	51.0	73.6	73.6	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 2500	52.3	75.5	75.5	75.5	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 2000	54.2	78.7	78.7	78.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 1800	54.8	79.4	79.4	79.4	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 1500	56.1	83.2	83.2	83.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 1200	56.8	85.2	85.2	85.2	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 1000	57.4	87.7	87.7	87.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 900	57.4	88.4	88.4	88.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 800	57.4	89.0	89.0	89.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 700	57.4	89.7	89.7	89.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 600	58.7	92.3	92.3	92.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 500	58.7	92.3	92.3	92.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 400	58.7	92.3	92.3	92.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 300	58.7	92.3	92.3	92.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 200	58.7	92.3	92.3	92.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 100	58.7	92.3	92.3	92.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 0	58.7	92.3	92.3	92.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

STATION
93117

STATION NAME
SAN CLEMENTE, CALIFORNIA

73-77

YEARS

MAR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	44.5	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 20000	44.5	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 18000	44.5	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 16000	44.5	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 14000	44.5	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 12000	44.5	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 10000	45.8	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 9000	45.8	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 8000	47.1	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 7000	47.1	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 6000	48.4	72.9	72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 5000	48.4	72.9	72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 4500	48.4	72.9	72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 4000	48.4	72.9	72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 3500	49.0	73.6	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 3000	50.3	74.8	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 2500	52.9	78.1	78.1	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 2000	54.2	82.6	82.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 1800	54.2	82.6	82.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 1500	54.8	85.8	85.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1200	55.5	87.1	87.1	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 1000	56.8	89.0	89.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 900	56.8	90.3	91.0	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 800	56.8	91.0	91.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 700	56.8	91.0	91.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 600	56.8	91.0	91.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 500	57.4	92.9	93.6	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 400	57.4	92.9	93.6	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 300	57.4	92.9	94.2	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 200	57.4	92.9	94.2	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 100	57.4	92.9	94.2	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
0	57.4	92.9	94.2	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

93117

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

MAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	42.6	52.3	52.3	52.3	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 20000	43.2	53.6	53.6	53.6	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 18000	43.2	53.6	53.6	53.6	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 16000	43.2	53.6	53.6	53.6	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 14000	43.2	53.6	53.6	53.6	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 12000	43.2	53.6	53.6	53.6	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 10000	43.9	54.2	54.2	54.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 9000	44.5	54.8	54.8	55.5	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 8000	45.8	56.8	56.8	57.4	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 7000	45.8	56.8	56.8	57.4	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 6000	46.5	57.4	57.4	58.1	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 5000	46.5	57.4	57.4	58.1	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 4500	47.7	58.7	58.7	59.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 4000	48.4	60.7	60.7	61.3	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 3500	50.3	62.6	62.6	63.9	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 3000	52.3	65.2	65.2	66.5	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 2500	54.2	67.1	67.1	68.4	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 2000	58.7	72.3	72.3	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 1800	58.7	72.9	72.9	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 1500	64.5	81.9	81.9	83.2	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 1200	67.1	84.5	84.5	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 1000	69.7	90.3	90.3	92.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 900	69.7	90.3	90.3	92.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 800	71.0	91.6	91.6	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 700	71.0	91.6	92.3	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 600	71.6	92.3	92.9	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 500	71.6	92.3	92.9	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 400	71.6	92.3	92.9	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 300	71.6	92.3	92.9	95.5	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 200	71.6	92.3	92.9	95.5	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 100	71.6	92.3	92.9	95.5	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
0	71.6	92.3	92.9	95.5	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

MAR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ ¾	≥ ½	≥ 5/16
NO CEILING	44.5	47.7	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥ 20000	47.7	52.3	54.2	54.2	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 18000	47.7	52.3	54.2	54.2	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 16000	47.7	52.3	54.2	54.2	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 14000	47.7	52.3	54.2	54.2	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 12000	48.4	52.9	54.8	54.8	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 10000	49.7	54.2	56.1	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 9000	49.7	54.2	56.1	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 8000	50.3	54.8	56.8	56.8	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 7000	50.3	54.8	56.8	56.8	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 6000	50.3	54.8	56.8	56.8	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 5000	51.6	56.1	58.1	58.1	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 4500	51.6	56.1	58.1	58.1	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 4000	51.6	56.8	58.7	58.7	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 3500	54.2	59.4	61.3	61.3	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 3000	56.1	61.9	63.9	63.9	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 2500	60.7	67.7	69.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 2000	66.5	74.2	76.1	76.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 1800	66.5	74.8	76.8	76.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 1500	69.7	80.7	82.6	82.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 1200	71.0	82.6	84.5	84.5	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 1000	76.1	87.7	89.7	89.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 900	76.1	88.4	90.3	90.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 800	78.1	91.0	92.9	92.9	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 700	78.7	91.6	93.6	93.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 600	78.7	91.6	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 500	78.7	91.6	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 400	78.7	91.6	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 300	78.7	91.6	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 200	78.7	91.6	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 100	78.7	91.6	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 0	78.7	91.6	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5

TOTAL NUMBER OF OBSERVATIONS

155

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77
YEARS

MAR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ ¾	≥ ½
NO CEILING	50.3	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 20000	55.5	62.6	62.6	62.6	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 18000	55.5	62.6	62.6	62.6	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 16000	55.5	62.6	62.6	62.6	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 14000	55.5	62.6	62.6	62.6	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 12000	56.8	63.9	63.9	63.9	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 10000	57.4	64.5	64.5	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 9000	57.4	64.5	64.5	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 8000	57.4	64.5	64.5	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 7000	57.4	64.5	64.5	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 6000	57.4	64.5	64.5	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 5000	58.7	65.8	65.8	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 4500	58.7	65.8	65.8	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 4000	59.4	66.5	66.5	66.5	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 3500	63.9	71.0	71.0	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 3000	67.7	74.8	74.8	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 2500	71.0	78.1	78.1	78.1	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 2000	72.9	81.9	81.9	81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 1800	74.2	83.2	83.2	83.2	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 1500	76.1	87.7	87.7	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 1200	78.7	90.3	90.3	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 1000	81.3	93.6	93.6	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 900	82.6	94.8	95.5	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 800	83.2	95.5	96.1	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 700	83.2	96.1	96.8	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 600	83.2	96.1	96.8	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 500	83.9	96.8	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400	83.9	96.8	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300	83.9	96.8	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200	83.9	96.8	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 100	83.9	96.8	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 0	83.9	96.8	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

MAR
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)16
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	54.2	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	57.4	57.4
≥ 20000	58.1	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	63.2	63.2
≥ 18000	59.4	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	65.2	65.2
≥ 16000	59.4	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	65.2	65.2
≥ 14000	59.4	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	65.2	65.2
≥ 12000	60.7	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	67.1	67.1
10000	61.3	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.7	67.7
9000	61.3	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.7	67.7
8000	61.9	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	68.4	68.4
7000	62.6	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	69.0	69.0
6000	63.2	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.7	69.7
5000	63.9	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	70.3	70.3
4500	63.9	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	70.3	70.3
4000	65.2	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.6	71.6
3500	66.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.6	73.6
3000	68.4	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	75.5	75.5
2500	72.3	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	79.4	79.4
2000	77.4	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.8	85.8
1800	78.1	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	88.4	88.4
1500	80.0	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.6	91.6
1200	80.7	91.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	92.3	92.3
1000	82.6	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.8	94.8
900	82.6	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.8	94.8
800	83.2	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	95.5	95.5
700	83.9	94.8	95.5	96.8	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.7	98.7
600	84.5	95.5	96.1	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4
500	84.5	96.1	96.8	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0
400	84.5	96.1	96.8	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0
300	84.5	96.1	96.8	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0
200	84.5	96.1	96.8	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0
100	84.5	96.1	96.8	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0
0	84.5	96.1	96.8	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

155

12

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

MAR
MONTH

19
HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING	51.0	60.7	61.3	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 20000	54.8	65.2	65.8	67.1	67.1	67.1	67.7	67.7	67.7	67.7	67.7	67.7
≥ 18000	55.5	65.8	66.5	67.7	67.7	67.7	68.4	68.4	68.4	68.4	68.4	68.4
≥ 16000	55.5	65.8	66.5	67.7	67.7	67.7	68.4	68.4	68.4	68.4	68.4	68.4
≥ 14000	56.8	67.1	67.7	69.0	69.0	69.0	69.7	69.7	69.7	69.7	69.7	69.7
≥ 12000	58.1	68.4	69.0	70.3	70.3	70.3	71.0	71.0	71.0	71.0	71.0	71.0
≥ 10000	58.1	68.4	69.0	70.3	70.3	70.3	71.0	71.0	71.0	71.0	71.0	71.0
≥ 9000	58.1	68.4	69.0	70.3	70.3	70.3	71.0	71.0	71.0	71.0	71.0	71.0
≥ 8000	58.1	68.4	69.0	70.3	70.3	70.3	71.0	71.0	71.0	71.0	71.0	71.0
≥ 7000	58.1	68.4	69.0	70.3	70.3	70.3	71.0	71.0	71.0	71.0	71.0	71.0
≥ 6000	59.4	69.7	70.3	71.6	71.6	71.6	72.3	72.3	72.3	72.3	72.3	72.3
≥ 5000	60.0	70.3	71.0	72.3	72.3	72.3	72.9	72.9	72.9	72.9	72.9	72.9
≥ 4500	60.0	70.3	71.0	72.3	72.3	72.3	72.9	72.9	72.9	72.9	72.9	72.9
≥ 4000	60.0	70.3	71.0	72.3	72.3	72.3	72.9	72.9	72.9	72.9	72.9	72.9
≥ 3500	60.7	71.0	71.6	72.9	72.9	72.9	73.6	73.6	73.6	73.6	73.6	73.6
≥ 3000	61.9	72.3	72.9	74.2	74.2	74.2	74.8	74.8	74.8	74.8	74.8	74.8
≥ 2500	63.2	74.2	74.8	76.1	76.1	76.1	76.8	76.8	76.8	76.8	76.8	76.8
≥ 2000	66.4	80.0	80.7	81.9	81.9	81.9	82.6	82.6	82.6	82.6	82.6	82.6
≥ 1800	69.7	81.3	81.9	83.9	83.9	83.9	84.5	84.5	84.5	84.5	84.5	84.5
≥ 1500	72.3	87.7	88.4	90.3	90.3	90.3	91.0	91.0	91.0	91.0	91.0	91.0
≥ 1200	72.9	88.4	89.0	91.0	91.0	91.0	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1000	73.6	90.3	91.0	92.9	92.9	92.9	93.6	93.6	93.6	93.6	93.6	93.6
≥ 900	73.6	90.3	91.0	92.9	92.9	92.9	93.6	93.6	93.6	93.6	93.6	93.6
≥ 800	74.2	91.0	91.6	93.6	93.6	93.6	94.2	94.2	94.2	94.2	94.2	94.2
≥ 700	74.2	91.0	91.6	93.6	93.6	93.6	94.2	94.2	94.2	94.2	94.2	94.2
≥ 600	74.2	91.0	91.6	94.2	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5
≥ 500	74.2	92.3	92.9	95.5	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 400	74.2	92.3	92.9	95.5	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 300	74.2	92.9	93.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 200	74.2	92.9	93.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 100	74.2	92.9	93.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
0	74.2	92.9	93.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET

SMOS

AD-A062 041

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C F/6 4/2
SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE (SMOS), SAN CLE--ETC(U)
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CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

MAR
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)22
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING	47.1	65.8	66.5	66.5	66.5	66.5	66.5	66.5	67.1	67.1	67.1	67.1
≥ 20000	49.0	68.4	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.7	69.7	69.7
≥ 18000	49.0	68.4	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.7	69.7	69.7
≥ 16000	49.0	68.4	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.7	69.7	69.7
≥ 14000	49.0	68.4	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.7	69.7	69.7
≥ 12000	49.0	69.0	69.7	69.7	69.7	69.7	69.7	69.7	70.3	70.3	70.3	70.3
≥ 10000	49.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3	71.0	71.0	71.0	71.0
≥ 9000	49.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3	71.0	71.0	71.0	71.0
≥ 8000	49.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3	71.0	71.0	71.0	71.0
≥ 7000	49.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3	71.0	71.0	71.0	71.0
≥ 6000	49.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3	71.0	71.0	71.0	71.0
≥ 5000	50.3	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.6	71.6	71.6	71.6
≥ 4500	50.3	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.6	71.6	71.6	71.6
≥ 4000	51.0	71.0	71.6	71.6	71.6	71.6	71.6	71.6	72.3	72.3	72.3	72.3
≥ 3500	51.0	71.0	72.3	72.3	72.3	72.3	72.3	72.3	72.9	72.9	72.9	72.9
≥ 3000	52.9	72.9	74.2	74.2	74.2	74.2	74.2	74.2	74.8	74.8	74.8	74.8
≥ 2500	54.8	77.4	79.4	79.4	79.4	79.4	79.4	79.4	80.0	80.0	80.0	80.0
≥ 2000	58.1	81.3	83.2	83.9	83.9	83.9	83.9	83.9	84.5	84.5	84.5	84.5
≥ 1800	58.7	81.9	83.9	84.5	84.5	84.5	84.5	84.5	85.2	85.2	85.2	85.2
≥ 1500	60.7	87.1	89.0	89.7	89.7	89.7	89.7	89.7	90.3	90.3	90.3	90.3
≥ 1200	60.7	87.7	89.7	90.3	90.3	90.3	90.3	90.3	91.0	91.0	91.0	91.0
≥ 1000	61.9	89.7	92.3	92.9	92.9	92.9	92.9	92.9	93.6	93.6	93.6	93.6
≥ 900	61.9	89.7	92.3	92.9	92.9	92.9	92.9	92.9	93.6	93.6	93.6	93.6
≥ 800	61.9	89.7	92.3	92.9	92.9	92.9	92.9	92.9	93.6	93.6	93.6	93.6
≥ 700	61.9	90.3	92.9	93.6	93.6	93.6	93.6	93.6	94.2	94.2	94.2	94.2
≥ 600	63.2	92.9	95.5	96.1	96.1	96.1	96.1	96.1	96.8	96.8	96.8	96.8
≥ 500	63.2	92.9	96.1	96.8	96.8	96.8	96.8	96.8	97.4	97.4	97.4	97.4
≥ 400	63.2	92.9	96.1	96.8	96.8	96.8	96.8	96.8	97.4	97.4	97.4	97.4
≥ 300	63.2	93.6	96.8	97.4	97.4	97.4	97.4	97.4	98.1	98.1	98.1	98.1
≥ 200	63.2	93.6	96.8	97.4	97.4	97.4	97.4	97.4	98.1	98.1	98.1	98.1
≥ 100	63.2	93.6	96.8	97.4	97.4	97.4	97.4	97.4	98.1	98.1	98.1	98.1
0	63.2	93.6	96.8	97.4	97.4	97.4	97.4	97.4	98.1	98.1	98.1	98.1

TOTAL NUMBER OF OBSERVATIONS

135

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

MAR
MONTH
ALL
HOURS (L S T)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	47.3	55.7	59.0	59.0	59.2	59.2	59.2	59.2	59.2	59.3	59.3	59.3	59.4
≥ 20000	49.6	62.3	62.7	62.9	63.2	63.2	63.2	63.3	63.3	63.4	63.4	63.4	63.5
≥ 18000	49.8	62.7	63.1	63.2	63.6	63.6	63.6	63.6	63.6	63.7	63.7	63.7	63.8
≥ 16000	49.8	62.7	63.1	63.2	63.6	63.6	63.6	63.6	63.6	63.7	63.7	63.7	63.8
≥ 14000	50.0	62.8	63.2	63.4	63.7	63.7	63.8	63.8	63.8	63.9	63.9	64.0	64.0
≥ 12000	50.6	63.6	64.0	64.1	64.4	64.4	64.5	64.5	64.5	64.6	64.6	64.7	64.7
≥ 10000	51.3	64.4	64.8	65.0	65.3	65.3	65.4	65.4	65.4	65.5	65.5	65.6	65.6
≥ 9000	51.4	64.4	64.8	65.1	65.4	65.4	65.5	65.5	65.5	65.6	65.6	65.7	65.7
≥ 8000	51.9	65.0	65.4	65.7	66.0	66.0	66.1	66.1	66.1	66.2	66.2	66.2	66.2
≥ 7000	51.9	65.1	65.5	65.7	66.1	66.1	66.1	66.1	66.1	66.2	66.2	66.3	66.3
≥ 6000	52.5	65.7	66.1	66.4	66.7	66.7	66.8	66.8	66.8	66.9	66.9	66.9	66.9
≥ 5000	53.1	66.2	66.6	66.9	67.3	67.3	67.3	67.3	67.3	67.4	67.4	67.5	67.5
≥ 4500	53.2	66.4	66.8	67.1	67.4	67.4	67.5	67.5	67.5	67.6	67.6	67.7	67.7
≥ 4000	53.9	67.3	67.7	68.1	68.4	68.4	68.5	68.5	68.5	68.6	68.6	68.6	68.6
≥ 3500	55.4	69.0	69.4	69.8	70.2	70.2	70.2	70.2	70.2	70.3	70.3	70.4	70.4
≥ 3000	57.6	71.3	71.8	72.2	72.5	72.5	72.6	72.6	72.6	72.7	72.7	72.7	72.7
≥ 2500	60.2	74.6	75.2	75.6	76.0	76.0	76.1	76.1	76.1	76.1	76.1	76.2	76.2
≥ 2000	63.8	79.4	80.1	80.7	81.2	81.2	81.3	81.3	81.3	81.4	81.4	81.5	81.5
≥ 1800	64.4	80.4	81.1	81.8	82.3	82.3	82.3	82.3	82.3	82.4	82.4	82.5	82.5
≥ 1500	66.8	85.6	86.2	86.9	87.4	87.4	87.5	87.5	87.5	87.6	87.6	87.7	87.7
≥ 1200	67.9	87.1	88.0	88.8	89.3	89.3	89.4	89.4	89.4	89.4	89.4	89.5	89.5
≥ 1000	69.9	90.2	91.2	92.1	92.6	92.6	92.8	92.9	92.9	93.1	93.1	93.2	93.2
≥ 900	70.1	90.7	91.8	92.7	93.2	93.2	93.5	93.6	93.6	93.7	93.7	93.8	93.8
≥ 800	70.7	91.6	92.7	93.6	94.1	94.1	94.4	94.4	94.4	94.6	94.6	94.7	94.7
≥ 700	70.9	92.0	93.2	94.3	95.0	95.1	95.3	95.4	95.4	95.6	95.6	95.7	95.7
≥ 600	71.4	92.8	94.0	95.4	96.1	96.2	96.5	96.5	96.5	96.7	96.7	96.8	96.8
≥ 500	71.5	93.4	94.7	96.1	96.9	97.0	97.5	97.6	97.6	97.7	97.7	97.8	97.8
≥ 400	71.5	93.4	94.7	96.1	97.0	97.1	97.6	97.6	97.6	97.8	97.8	98.0	98.0
≥ 300	71.5	93.6	94.9	96.4	97.3	97.4	97.9	98.2	98.2	98.7	99.0	99.1	99.1
≥ 200	71.5	93.6	94.9	96.4	97.3	97.5	98.0	98.4	98.4	98.9	99.2	99.3	99.3
≥ 100	71.5	93.6	94.9	96.4	97.3	97.5	98.0	98.4	98.4	98.9	99.2	99.3	99.3
≥ 0	71.5	93.6	94.9	96.4	97.3	97.5	98.0	98.4	98.4	98.9	99.2	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS

1240

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

APR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

01

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	37.3	56.0	58.7	59.3	59.3	59.3	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 20000	38.7	57.3	60.0	60.7	60.7	60.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 18000	38.7	57.3	60.0	60.7	60.7	60.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 16000	38.7	57.3	60.0	60.7	60.7	60.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 14000	38.7	57.3	60.0	60.7	60.7	60.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 12000	38.7	57.3	60.0	60.7	60.7	60.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 10000	38.7	57.3	60.0	60.7	60.7	60.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 9000	38.7	57.3	60.0	60.7	60.7	60.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 8000	39.3	58.0	60.7	61.3	61.3	61.3	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
≥ 7000	39.3	58.0	60.7	61.3	61.3	61.3	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
≥ 6000	39.3	58.0	60.7	61.3	61.3	61.3	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
≥ 5000	40.0	58.7	61.3	62.0	62.0	62.0	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 4500	40.0	58.7	61.3	62.0	62.0	62.0	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 4000	40.0	58.7	61.3	62.0	62.0	62.0	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 3500	40.0	59.3	62.0	62.7	62.7	62.7	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 3000	41.3	60.7	63.3	64.0	64.0	64.0	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 2500	42.0	62.7	65.3	66.0	66.0	66.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 2000	44.7	66.7	69.3	70.0	70.0	70.0	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 1800	45.3	67.3	70.0	70.7	70.7	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 1500	46.7	68.7	72.0	72.7	72.7	72.7	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 1200	48.0	71.3	74.7	75.3	75.3	75.3	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 1000	48.0	76.7	80.7	82.0	82.0	82.0	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 900	48.0	78.0	82.0	83.3	83.3	83.3	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 800	48.0	80.0	84.0	85.3	86.0	86.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 700	48.7	82.7	87.3	88.7	89.3	89.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 600	48.7	84.0	90.0	91.3	93.3	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 500	48.7	85.3	91.3	93.3	96.0	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 400	49.3	86.0	92.0	94.7	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300	49.3	86.0	92.0	94.7	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200	49.3	86.0	92.0	94.7	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 100	49.3	86.0	92.0	94.7	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0	49.3	86.0	92.0	94.7	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION
93117

STATION NAME
SAN CLEMENTE, CALIFORNIA

73-77

YEARS

MONTH
APR

04

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING	38.0	53.3	56.0	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 20000	39.3	54.7	57.3	58.0	58.0	58.0	58.7	58.7	58.7	58.7	58.7
≥ 18000	39.3	54.7	57.3	58.0	58.0	58.0	58.7	58.7	58.7	58.7	58.7
≥ 16000	39.3	54.7	57.3	58.0	58.0	58.0	58.7	58.7	58.7	58.7	58.7
≥ 14000	39.3	54.7	57.3	58.0	58.0	58.0	58.7	58.7	58.7	58.7	58.7
≥ 12000	39.3	54.7	57.3	58.0	58.0	58.0	58.7	58.7	58.7	58.7	58.7
≥ 10000	39.3	54.7	57.3	58.0	58.0	58.0	58.7	58.7	58.7	58.7	58.7
≥ 9000	39.3	54.7	57.3	58.0	58.0	58.0	58.7	58.7	58.7	58.7	58.7
≥ 8000	39.3	54.7	57.3	58.0	58.0	58.0	58.7	58.7	58.7	58.7	58.7
≥ 7000	39.3	54.7	57.3	58.0	58.0	58.0	58.7	58.7	58.7	58.7	58.7
≥ 6000	39.3	54.7	57.3	58.0	58.0	58.0	58.7	58.7	58.7	58.7	58.7
≥ 5000	40.7	56.0	58.7	59.3	59.3	59.3	60.0	60.0	60.0	60.0	60.0
≥ 4500	40.7	56.0	58.7	59.3	59.3	59.3	60.0	60.0	60.0	60.0	60.0
≥ 4000	42.7	59.3	62.0	62.7	62.7	62.7	63.3	63.3	63.3	63.3	63.3
≥ 3500	42.7	59.3	62.0	62.7	62.7	62.7	63.3	63.3	63.3	63.3	63.3
≥ 3000	44.0	61.3	64.0	64.7	64.7	64.7	65.3	65.3	65.3	65.3	65.3
≥ 2500	44.7	62.0	64.7	65.3	65.3	65.3	66.0	66.0	66.0	66.0	66.0
≥ 2000	45.3	65.3	68.0	68.7	68.7	68.7	69.3	69.3	69.3	69.3	69.3
≥ 1800	46.0	66.0	68.7	69.3	69.3	69.3	70.0	70.0	70.0	70.0	70.0
≥ 1500	47.3	68.7	72.7	73.3	73.3	73.3	74.0	74.0	74.0	74.0	74.0
≥ 1200	48.0	70.0	74.0	74.7	74.7	74.7	75.3	75.3	75.3	75.3	75.3
≥ 1000	48.0	76.0	81.3	82.0	82.0	82.0	82.7	82.7	82.7	82.7	82.7
≥ 900	48.0	77.3	82.7	83.3	83.3	83.3	84.0	84.0	84.0	84.0	84.0
≥ 800	48.0	78.7	84.0	84.7	85.3	85.3	86.0	86.0	86.0	86.0	86.0
≥ 700	49.3	81.3	86.7	87.3	88.0	88.0	88.7	88.7	88.7	88.7	88.7
≥ 600	49.3	84.7	91.3	92.0	93.3	93.3	94.0	94.0	94.7	94.7	94.7
≥ 500	49.3	84.7	92.7	94.0	96.0	96.0	96.7	96.7	97.3	97.3	97.3
≥ 400	49.3	84.7	92.7	94.7	96.7	96.7	98.0	98.0	98.7	98.7	98.7
≥ 300	49.3	84.7	92.7	94.7	96.7	96.7	98.7	98.7	99.3	99.3	99.3
≥ 200	49.3	84.7	92.7	94.7	96.7	96.7	98.7	98.7	99.3	99.3	99.3
≥ 100	49.3	84.7	92.7	94.7	96.7	96.7	98.7	98.7	99.3	99.3	99.3
0	49.3	84.7	92.7	94.7	96.7	96.7	98.7	98.7	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS

150

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

APR
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

07

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½
NO CEILING	30.7	39.3	40.0	40.7	41.3	41.3	42.0	42.0	42.0	42.0	42.0
≥ 20000	32.0	40.7	41.3	42.0	42.7	42.7	43.3	43.3	43.3	43.3	43.3
≥ 18000	32.0	40.7	41.3	42.0	42.7	42.7	43.3	43.3	43.3	43.3	43.3
≥ 16000	32.0	40.7	41.3	42.0	42.7	42.7	43.3	43.3	43.3	43.3	43.3
≥ 14000	32.0	40.7	41.3	42.0	42.7	42.7	43.3	43.3	43.3	43.3	43.3
≥ 12000	32.0	40.7	41.3	42.0	42.7	42.7	43.3	43.3	43.3	43.3	43.3
≥ 10000	32.0	40.7	41.3	42.0	42.7	42.7	43.3	43.3	43.3	43.3	43.3
≥ 9000	32.0	40.7	41.3	42.0	42.7	42.7	43.3	43.3	43.3	43.3	43.3
≥ 8000	32.7	41.3	42.0	42.7	43.3	43.3	44.0	44.0	44.0	44.0	44.0
≥ 7000	32.7	41.3	42.0	42.7	43.3	43.3	44.0	44.0	44.0	44.0	44.0
≥ 6000	32.7	41.3	42.0	42.7	43.3	43.3	44.0	44.0	44.0	44.0	44.0
≥ 5000	32.7	41.3	42.0	42.7	43.3	43.3	44.0	44.0	44.0	44.0	44.0
≥ 4500	32.7	41.3	42.0	42.7	43.3	43.3	44.0	44.0	44.0	44.0	44.0
≥ 4000	34.7	43.3	44.0	44.7	45.3	45.3	46.0	46.0	46.0	46.0	46.0
≥ 3500	36.7	45.3	46.0	46.7	47.3	47.3	48.0	48.0	48.0	48.0	48.0
≥ 3000	38.0	47.3	48.0	48.7	49.3	49.3	50.0	50.0	50.0	50.0	50.0
≥ 2500	38.7	48.0	48.7	49.3	50.0	50.0	50.7	50.7	50.7	50.7	50.7
≥ 2000	42.0	51.3	52.0	52.7	53.3	53.3	54.0	54.0	54.0	54.0	54.0
≥ 1800	43.3	52.7	53.3	54.0	54.7	54.7	55.3	55.3	55.3	55.3	55.3
≥ 1500	46.7	58.7	61.3	62.0	62.7	62.7	63.3	63.3	63.3	63.3	63.3
≥ 1200	52.7	67.3	71.3	72.0	72.7	72.7	73.3	73.3	73.3	73.3	73.3
≥ 1000	58.0	75.3	79.3	80.0	80.7	80.7	81.3	81.3	81.3	81.3	81.3
≥ 900	58.0	76.0	80.0	80.7	81.3	81.3	82.0	82.0	82.0	82.0	82.0
≥ 800	58.7	79.3	84.0	86.7	87.3	87.3	88.0	88.0	88.0	88.0	88.0
≥ 700	58.7	80.0	85.3	88.0	88.7	88.7	90.0	90.0	90.0	90.0	90.0
≥ 600	58.7	81.3	87.3	91.3	93.3	93.3	94.7	94.7	94.7	94.7	94.7
≥ 500	58.7	82.0	89.3	93.3	95.3	95.3	96.7	96.7	96.7	96.7	96.7
≥ 400	58.7	82.7	90.0	94.0	96.0	96.0	97.3	97.3	97.3	97.3	97.3
≥ 300	58.7	82.7	90.0	94.0	96.0	96.0	98.0	98.0	98.0	98.0	98.0
≥ 200	58.7	82.7	90.0	94.0	96.0	96.0	98.0	98.0	98.0	98.0	98.0
≥ 100	58.7	82.7	90.0	94.0	96.0	96.0	98.0	98.0	98.0	98.0	98.0
≥ 0	58.7	82.7	90.0	94.0	96.0	96.0	98.0	98.0	98.0	98.0	98.0

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

APR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	38.7	48.0	51.3	52.0	52.7	52.7	53.3	53.3	53.3	53.3	53.3	53.3	53.3
≥ 20000	43.3	52.7	56.7	57.3	58.0	58.0	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 18000	43.3	52.7	56.7	57.3	58.0	58.0	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 16000	43.3	52.7	56.7	57.3	58.0	58.0	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 14000	43.3	52.7	56.7	57.3	58.0	58.0	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 12000	43.3	52.7	56.7	57.3	58.0	58.0	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 10000	43.3	52.7	56.7	57.3	58.0	58.0	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 9000	43.3	52.7	56.7	57.3	58.0	58.0	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 8000	44.0	53.3	57.3	58.0	58.7	58.7	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥ 7000	44.0	53.3	57.3	58.0	58.7	58.7	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥ 6000	44.0	53.3	57.3	58.0	58.7	58.7	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥ 5000	44.0	53.3	57.3	58.0	58.7	58.7	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥ 4500	44.0	53.3	57.3	58.0	58.7	58.7	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥ 4000	45.3	54.7	58.7	59.3	60.0	60.0	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 3500	46.0	55.3	59.3	60.0	60.7	60.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 3000	47.3	56.7	60.7	61.3	62.0	62.0	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 2500	48.7	58.7	62.7	63.3	64.0	64.0	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 2000	51.3	62.7	66.7	68.0	68.7	68.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 1800	52.7	64.7	69.3	70.7	71.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 1500	55.3	70.7	75.3	76.7	77.3	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 1200	56.7	73.3	78.0	80.0	80.7	80.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 1000	60.0	78.7	83.3	86.0	87.3	87.3	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 900	60.0	79.3	84.0	86.7	88.0	88.0	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 800	60.0	80.0	84.7	88.0	89.3	89.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 700	61.3	82.0	87.3	90.7	92.0	92.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 600	61.3	82.0	88.0	92.0	93.3	94.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 500	61.3	82.0	88.7	93.3	95.3	96.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400	61.3	82.0	88.7	93.3	95.3	96.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300	61.3	82.0	88.7	93.3	95.3	96.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200	61.3	82.0	88.7	93.3	95.3	96.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 100	61.3	82.0	88.7	93.3	95.3	96.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 0	61.3	82.0	88.7	93.3	95.3	96.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

150

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

APR
MONTH

13

HOURS (L S T)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING	45.3	56.7	57.3	57.3	57.3	57.3	58.0	58.0	58.0	58.0	58.0
≥ 20000	49.3	63.3	64.0	64.0	64.0	64.0	64.7	64.7	64.7	64.7	64.7
≥ 18000	49.3	63.3	64.0	64.0	64.0	64.0	64.7	64.7	64.7	64.7	64.7
≥ 16000	49.3	63.3	64.0	64.0	64.0	64.0	64.7	64.7	64.7	64.7	64.7
≥ 14000	49.3	63.3	64.0	64.0	64.0	64.0	64.7	64.7	64.7	64.7	64.7
≥ 12000	49.3	63.3	64.0	64.0	64.0	64.0	64.7	64.7	64.7	64.7	64.7
≥ 10000	50.0	64.0	64.7	64.7	64.7	64.7	65.3	65.3	65.3	65.3	65.3
≥ 9000	50.0	64.0	64.7	64.7	64.7	64.7	65.3	65.3	65.3	65.3	65.3
≥ 8000	51.3	65.3	66.0	66.0	66.0	66.0	66.7	66.7	66.7	66.7	66.7
≥ 7000	51.3	65.3	66.0	66.0	66.0	66.0	66.7	66.7	66.7	66.7	66.7
≥ 6000	51.3	65.3	66.0	66.0	66.0	66.0	66.7	66.7	66.7	66.7	66.7
≥ 5000	52.0	66.0	66.7	66.7	66.7	66.7	67.3	67.3	67.3	67.3	67.3
≥ 4500	52.0	66.0	66.7	66.7	66.7	66.7	67.3	67.3	67.3	67.3	67.3
≥ 4000	53.3	68.7	69.3	69.3	69.3	69.3	70.0	70.0	70.0	70.0	70.0
≥ 3500	53.3	68.7	69.3	69.3	69.3	69.3	70.0	70.0	70.0	70.0	70.0
≥ 3000	54.7	70.7	71.3	71.3	71.3	71.3	72.0	72.0	72.0	72.0	72.0
≥ 2500	55.3	72.7	73.3	73.3	73.3	73.3	74.0	74.0	74.0	74.0	74.0
≥ 2000	57.3	76.7	78.0	78.0	78.0	78.0	78.7	78.7	78.7	78.7	78.7
≥ 1800	60.0	79.3	80.7	80.7	80.7	80.7	81.3	81.3	81.3	81.3	81.3
≥ 1500	61.3	82.0	83.3	84.7	84.7	84.7	85.3	85.3	85.3	85.3	85.3
≥ 1200	63.3	84.7	86.0	87.3	87.3	87.3	88.0	88.0	88.0	88.0	88.0
≥ 1000	63.3	87.3	89.3	91.3	91.3	91.3	92.0	92.0	92.0	92.0	92.0
≥ 900	63.3	88.0	91.3	93.3	93.3	93.3	94.0	94.0	94.0	94.0	94.0
≥ 800	63.3	88.7	92.0	94.7	94.7	94.7	95.3	95.3	95.3	95.3	95.3
≥ 700	64.0	89.3	92.7	96.0	96.0	96.0	96.7	96.7	96.7	96.7	96.7
≥ 600	64.0	89.3	94.0	97.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0
≥ 500	64.0	89.3	94.0	98.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7
≥ 400	64.0	89.3	94.0	98.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7
≥ 300	64.0	89.3	94.0	98.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7
≥ 200	64.0	89.3	94.0	98.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7
≥ 100	64.0	89.3	94.0	98.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7
0	64.0	89.3	94.0	98.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

150

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

APR
MONTH

16
HOURS (L S T)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING	46.0	56.0	56.7	57.3	57.3	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 20000	48.7	59.3	60.7	62.0	62.0	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 18000	48.7	59.3	60.7	62.0	62.0	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 16000	48.7	59.3	60.7	62.0	62.0	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 14000	49.3	60.7	62.0	63.3	63.3	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 12000	49.3	60.7	62.0	63.3	63.3	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 10000	50.0	61.3	62.7	64.0	64.0	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 9000	50.0	61.3	62.7	64.0	64.0	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 8000	50.7	62.7	64.0	65.3	65.3	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 7000	50.7	62.7	64.0	65.3	65.3	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 6000	50.7	62.7	64.0	65.3	65.3	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 5000	51.3	63.3	64.7	66.0	66.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 4500	51.3	63.3	64.7	66.0	66.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 4000	52.0	64.0	65.3	66.7	66.7	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 3500	52.0	64.0	65.3	66.7	66.7	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 3000	54.0	66.0	67.3	68.7	68.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 2500	54.7	67.3	68.7	70.0	70.0	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 2000	58.0	72.0	73.3	74.7	74.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 1800	59.3	74.0	75.3	76.7	76.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 1500	60.7	78.7	80.0	81.3	81.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 1200	61.3	80.0	82.0	83.3	83.3	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 1000	62.7	83.3	85.3	86.0	86.0	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 900	63.3	84.0	87.3	90.0	90.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 800	64.0	85.3	88.7	92.0	92.0	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 700	64.0	86.0	89.3	92.7	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 600	64.0	87.3	91.3	94.7	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 500	64.7	88.0	92.7	96.7	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400	64.7	88.0	92.7	96.7	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300	64.7	88.0	92.7	96.7	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200	64.7	88.0	92.7	96.7	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 100	64.7	88.0	92.7	96.7	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 0	64.7	88.0	92.7	96.7	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION
93117STATION NAME
SAN CLEMENTE, CALIFORNIA

73-77

YEARS

APR
MONTH

19

HOURS (L S T)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING	40.7	60.7	62.0	62.0	62.0	62.0	62.7	62.7	62.7	62.7	62.7	62.7
≥ 20000	46.7	61.3	63.3	63.3	63.3	63.3	64.0	64.0	64.0	64.0	64.0	64.0
≥ 18000	46.7	61.3	63.3	63.3	63.3	63.3	64.0	64.0	64.0	64.0	64.0	64.0
≥ 16000	46.7	61.3	63.3	63.3	63.3	63.3	64.0	64.0	64.0	64.0	64.0	64.0
≥ 14000	47.3	62.0	64.0	64.0	64.0	64.0	64.7	64.7	64.7	64.7	64.7	64.7
≥ 12000	47.3	62.0	64.0	64.0	64.0	64.0	64.7	64.7	64.7	64.7	64.7	64.7
≥ 10000	48.0	62.7	64.7	64.7	64.7	64.7	65.3	65.3	65.3	65.3	65.3	65.3
≥ 9000	48.0	62.7	64.7	64.7	64.7	64.7	65.3	65.3	65.3	65.3	65.3	65.3
≥ 8000	48.0	62.7	64.7	64.7	64.7	64.7	65.3	65.3	65.3	65.3	65.3	65.3
≥ 7000	48.0	62.7	64.7	64.7	64.7	64.7	65.3	65.3	65.3	65.3	65.3	65.3
≥ 6000	48.7	63.3	65.3	65.3	65.3	65.3	66.0	66.0	66.0	66.0	66.0	66.0
≥ 5000	49.3	64.0	66.0	66.0	66.0	66.0	66.7	66.7	66.7	66.7	66.7	66.7
≥ 4500	49.3	64.0	66.0	66.0	66.0	66.0	66.7	66.7	66.7	66.7	66.7	66.7
≥ 4000	50.0	64.7	66.7	66.7	66.7	66.7	67.3	67.3	67.3	67.3	67.3	67.3
≥ 3500	50.0	64.7	66.7	66.7	66.7	66.7	67.3	67.3	67.3	67.3	67.3	67.3
≥ 3000	50.0	65.3	67.3	67.3	67.3	67.3	68.0	68.0	68.0	68.0	68.0	68.0
≥ 2500	50.7	66.0	68.0	68.0	68.0	68.0	68.7	68.7	68.7	68.7	68.7	68.7
≥ 2000	52.7	69.3	71.3	71.3	71.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0
≥ 1800	52.7	70.0	72.0	72.0	72.0	72.0	72.7	72.7	72.7	72.7	72.7	72.7
≥ 1500	56.0	75.3	77.3	77.3	77.3	77.3	78.0	78.0	78.0	78.0	78.0	78.0
≥ 1200	56.7	76.7	79.3	79.3	79.3	79.3	80.0	80.0	80.0	80.0	80.0	80.0
≥ 1000	58.7	78.7	82.0	84.0	84.0	84.0	84.7	84.7	84.7	84.7	84.7	84.7
≥ 900	58.7	79.3	83.3	85.3	85.3	85.3	86.0	86.0	86.0	86.0	86.0	86.0
≥ 800	60.7	82.0	86.0	88.0	88.0	88.0	88.7	88.7	88.7	88.7	88.7	88.7
≥ 700	62.0	85.3	89.3	91.3	92.0	92.0	92.7	92.7	92.7	92.7	92.7	92.7
≥ 600	62.7	86.0	91.3	93.3	94.0	94.0	94.7	94.7	94.7	94.7	94.7	94.7
≥ 500	63.3	86.7	92.7	95.3	96.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3
≥ 400	63.3	86.7	92.7	95.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0
≥ 300	63.3	86.7	92.7	95.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0
≥ 200	63.3	86.7	92.7	95.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0
≥ 100	63.3	86.7	92.7	95.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0
≥ 0	63.3	86.7	92.7	95.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0

TOTAL NUMBER OF OBSERVATIONS

150

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

APR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	42.7	61.3	64.0	64.0	64.0	64.0	64.7	64.7	64.7	65.3	65.3	65.3	65.3
≥ 20000	42.7	62.0	64.7	64.7	64.7	64.7	65.3	65.3	65.3	66.0	66.0	66.0	66.0
≥ 18000	42.7	62.0	64.7	64.7	64.7	64.7	65.3	65.3	65.3	66.0	66.0	66.0	66.0
≥ 16000	42.7	62.0	64.7	64.7	64.7	64.7	65.3	65.3	65.3	66.0	66.0	66.0	66.0
≥ 14000	42.7	62.0	64.7	64.7	64.7	64.7	65.3	65.3	65.3	66.0	66.0	66.0	66.0
≥ 12000	42.7	62.0	64.7	64.7	64.7	64.7	65.3	65.3	65.3	66.0	66.0	66.0	66.0
≥ 10000	42.7	62.0	64.7	64.7	64.7	64.7	65.3	65.3	65.3	66.0	66.0	66.0	66.0
≥ 9000	42.7	62.0	64.7	64.7	64.7	64.7	65.3	65.3	65.3	66.0	66.0	66.0	66.0
≥ 8000	42.7	62.0	64.7	64.7	64.7	64.7	65.3	65.3	65.3	66.0	66.0	66.0	66.0
≥ 7000	42.7	62.0	64.7	64.7	64.7	64.7	65.3	65.3	65.3	66.0	66.0	66.0	66.0
≥ 6000	42.7	62.0	64.7	64.7	64.7	64.7	65.3	65.3	65.3	66.0	66.0	66.0	66.0
≥ 5000	43.3	62.7	65.3	65.3	65.3	65.3	66.0	66.0	66.0	66.7	66.7	66.7	66.7
≥ 4500	43.3	62.7	65.3	65.3	65.3	65.3	66.0	66.0	66.0	66.7	66.7	66.7	66.7
≥ 4000	44.0	63.3	66.0	66.0	66.0	66.0	66.7	66.7	66.7	67.3	67.3	67.3	67.3
≥ 3500	44.0	63.3	66.0	66.0	66.0	66.0	66.7	66.7	66.7	67.3	67.3	67.3	67.3
≥ 3000	44.7	64.0	66.7	66.7	66.7	66.7	67.3	67.3	67.3	68.0	68.0	68.0	68.0
≥ 2500	46.0	65.3	68.0	68.0	68.0	68.0	68.7	68.7	68.7	69.3	69.3	69.3	69.3
≥ 2000	47.3	70.0	72.7	72.7	72.7	72.7	73.3	73.3	73.3	74.0	74.0	74.0	74.0
≥ 1800	47.3	71.3	74.0	74.0	74.0	74.0	74.7	74.7	74.7	75.3	75.3	75.3	75.3
≥ 1500	48.7	74.7	78.0	78.0	78.0	78.0	78.7	78.7	78.7	79.3	79.3	79.3	79.3
≥ 1200	49.3	75.3	78.7	78.7	78.7	78.7	79.3	79.3	79.3	80.0	80.0	80.0	80.0
≥ 1000	51.3	78.7	82.7	83.3	84.0	84.0	84.7	84.7	84.7	85.3	85.3	85.3	85.3
≥ 900	51.3	78.7	83.3	84.0	84.7	84.7	85.3	85.3	85.3	86.0	86.0	86.0	86.0
≥ 800	51.3	81.3	86.0	86.7	87.3	87.3	88.0	88.0	88.0	88.7	88.7	88.7	88.7
≥ 700	52.0	82.7	88.0	88.7	89.3	89.3	90.0	90.0	90.0	90.7	90.7	90.7	90.7
≥ 600	52.0	82.7	88.0	88.7	89.3	89.3	90.7	91.3	91.3	92.0	92.0	92.0	92.0
≥ 500	52.7	84.7	90.7	92.7	95.3	95.3	96.0	96.0	96.0	96.7	97.3	97.3	97.3
≥ 400	52.7	84.7	90.7	93.3	96.0	96.0	96.7	97.3	97.3	98.0	98.7	98.7	98.7
≥ 300	52.7	84.7	90.7	93.3	96.0	96.0	96.7	97.3	97.3	98.0	98.7	98.7	98.7
≥ 200	52.7	84.7	90.7	93.3	96.0	96.0	96.7	97.3	97.3	98.0	98.7	98.7	98.7
≥ 100	52.7	84.7	90.7	93.3	96.0	96.0	96.7	97.3	97.3	98.0	98.7	98.7	98.7
≥ 0	52.7	84.7	90.7	93.3	96.0	96.0	96.7	97.3	97.3	98.0	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

150

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

APR
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)ALL
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	40.7	53.9	55.8	56.2	56.3	56.4	56.9	56.9	56.9	57.0	57.0	57.0	57.0
≥ 20000	42.6	56.4	58.5	59.0	59.2	59.3	59.8	59.8	59.8	59.9	59.9	59.9	59.9
≥ 18000	42.6	56.4	58.5	59.0	59.2	59.3	59.8	59.8	59.8	59.9	59.9	59.9	59.9
≥ 16000	42.6	56.4	58.5	59.0	59.2	59.3	59.8	59.8	59.8	59.9	59.9	59.9	59.9
≥ 14000	42.8	56.7	58.8	59.3	59.4	59.5	60.1	60.1	60.1	60.2	60.2	60.2	60.2
≥ 12000	42.8	56.7	58.8	59.3	59.4	59.5	60.1	60.1	60.1	60.2	60.2	60.2	60.2
≥ 10000	43.0	56.9	59.0	59.5	59.7	59.8	60.3	60.3	60.3	60.4	60.4	60.4	60.4
≥ 9000	43.0	56.9	59.0	59.5	59.7	59.8	60.3	60.3	60.3	60.4	60.4	60.4	60.4
≥ 8000	43.5	57.5	59.6	60.1	60.3	60.3	60.9	60.9	60.9	61.0	61.0	61.0	61.0
≥ 7000	43.5	57.5	59.6	60.1	60.3	60.3	60.9	60.9	60.9	61.0	61.0	61.0	61.0
≥ 6000	43.6	57.6	59.7	60.2	60.3	60.4	61.0	61.0	61.0	61.1	61.1	61.1	61.1
≥ 5000	44.2	58.2	60.3	60.8	60.9	61.0	61.6	61.6	61.6	61.7	61.7	61.7	61.7
≥ 4500	44.2	58.2	60.3	60.8	60.9	61.0	61.6	61.6	61.6	61.7	61.7	61.7	61.7
≥ 4000	45.3	59.6	61.7	62.2	62.3	62.4	63.0	63.0	63.0	63.1	63.1	63.1	63.1
≥ 3500	45.6	60.0	62.1	62.6	62.8	62.8	63.4	63.4	63.4	63.5	63.5	63.5	63.5
≥ 3000	46.8	61.5	63.6	64.1	64.3	64.3	64.9	64.9	64.9	65.0	65.0	65.0	65.0
≥ 2500	47.6	62.8	64.9	65.4	65.6	65.7	66.3	66.3	66.3	66.3	66.3	66.3	66.3
≥ 2000	49.8	66.8	68.9	69.5	69.7	69.8	70.3	70.3	70.3	70.4	70.4	70.4	70.4
≥ 1800	50.8	68.2	70.4	71.0	71.2	71.3	71.8	71.8	71.8	71.9	71.9	71.9	71.9
≥ 1500	52.8	72.2	75.0	75.8	75.9	76.0	76.6	76.6	76.6	76.7	76.7	76.7	76.7
≥ 1200	54.5	74.8	78.0	78.8	79.0	79.1	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 1000	56.3	79.3	83.0	84.6	85.0	85.1	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 900	56.3	80.1	84.3	85.8	86.3	86.3	87.0	87.0	87.0	87.1	87.1	87.1	87.1
≥ 800	56.8	81.9	86.2	88.3	88.8	88.9	89.6	89.6	89.6	89.7	89.7	89.7	89.7
≥ 700	57.5	83.7	88.3	90.4	91.1	91.3	92.1	92.1	92.1	92.2	92.2	92.2	92.2
≥ 600	57.6	84.7	90.2	92.6	93.8	94.0	94.8	94.8	94.8	95.0	95.0	95.0	95.0
≥ 500	57.8	85.3	91.5	94.6	96.4	96.6	97.5	97.5	97.5	97.7	97.8	97.8	97.8
≥ 400	57.9	85.5	91.7	95.0	97.0	97.2	98.3	98.3	98.3	98.5	98.6	98.6	98.6
≥ 300	57.9	85.5	91.7	95.0	97.0	97.2	98.4	98.4	98.4	98.8	98.8	98.8	98.8
≥ 200	57.9	85.5	91.7	95.0	97.0	97.2	98.4	98.4	98.4	98.8	98.8	98.8	98.8
≥ 100	57.9	85.5	91.7	95.0	97.0	97.2	98.4	98.4	98.4	98.8	98.8	98.8	98.8
≥ 0	57.9	85.5	91.7	95.0	97.0	97.2	98.4	98.4	98.4	98.8	98.8	98.8	98.8

TOTAL NUMBER OF OBSERVATIONS

1200

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

MAY
MONTH

01
HOURS (L S T)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	14.2	34.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	37.4	37.4	38.1	38.1
≥ 20000	14.2	34.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	37.4	37.4	38.1	38.1
≥ 18000	14.2	34.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	37.4	37.4	38.1	38.1
≥ 16000	14.2	34.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	37.4	37.4	38.1	38.1
≥ 14000	14.2	34.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	37.4	37.4	38.1	38.1
≥ 12000	14.2	34.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	37.4	37.4	38.1	38.1
≥ 10000	14.2	34.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	37.4	37.4	38.1	38.1
≥ 9000	14.2	34.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	37.4	37.4	38.1	38.1
≥ 8000	14.2	34.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	37.4	37.4	38.1	38.1
≥ 7000	14.2	34.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	37.4	37.4	38.1	38.1
≥ 6000	14.2	34.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	37.4	37.4	38.1	38.1
≥ 5000	14.2	34.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	37.4	37.4	38.1	38.1
≥ 4500	14.2	34.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	37.4	37.4	38.1	38.1
≥ 4000	14.2	35.5	37.4	37.4	37.4	37.4	37.4	38.1	38.1	38.7	38.7	39.4	39.4
≥ 3500	14.2	35.5	37.4	37.4	37.4	37.4	37.4	38.1	38.1	38.7	38.7	39.4	39.4
≥ 3000	14.2	36.1	38.1	38.1	38.1	38.1	38.1	38.7	38.7	39.4	39.4	40.0	40.0
≥ 2500	14.2	37.4	39.4	39.4	39.4	39.4	39.4	40.0	40.0	40.7	40.7	41.3	41.3
≥ 2000	16.1	40.7	42.6	42.6	42.6	42.6	42.6	43.2	43.2	43.9	43.9	44.5	44.5
≥ 1800	16.8	41.9	43.9	43.9	44.5	44.5	44.5	45.2	45.2	45.8	45.8	46.5	46.5
≥ 1500	18.7	46.4	50.3	50.3	51.0	51.0	51.0	51.6	51.6	52.3	52.3	52.9	52.9
≥ 1200	21.9	56.8	60.7	60.7	61.3	61.3	61.3	61.9	61.9	62.6	62.6	63.2	63.2
≥ 1000	23.2	66.5	71.0	72.3	72.9	72.9	72.9	73.6	73.6	74.2	74.2	74.8	74.8
≥ 900	23.2	67.7	72.3	74.8	76.1	76.1	76.1	76.8	76.8	77.4	77.4	78.1	78.1
≥ 800	23.2	68.4	72.9	76.1	77.4	77.4	77.4	78.1	78.1	78.7	78.7	79.4	79.4
≥ 700	23.9	72.3	78.1	81.9	83.2	83.9	83.9	84.5	84.5	85.2	85.2	85.8	85.8
≥ 600	24.5	76.8	83.2	87.7	89.0	89.7	89.7	90.3	90.3	91.0	91.0	91.6	91.6
≥ 500	24.5	77.4	85.2	90.3	91.6	92.3	92.3	92.9	92.9	93.6	93.6	94.2	94.2
≥ 400	24.5	77.4	85.8	91.0	92.9	93.6	93.6	94.8	94.8	95.5	95.5	96.1	96.1
≥ 300	24.5	77.4	85.8	91.0	92.9	93.6	93.6	96.8	96.8	97.4	97.4	98.1	98.1
≥ 200	24.5	77.4	85.8	91.0	93.6	94.2	94.2	97.4	97.4	98.1	98.1	98.7	98.7
≥ 100	24.5	77.4	85.8	91.0	93.6	94.2	94.2	97.4	97.4	98.1	98.1	99.4	99.4
≥ 0	24.5	77.4	85.8	91.0	93.6	94.2	94.2	97.4	97.4	98.1	98.1	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

MAY
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)04
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	10.3	23.9	25.8	27.1	27.7	27.7	27.7	27.7	27.7	28.4	28.4	28.4	29.0	29.0	29.0
≥ 20000	10.3	24.5	26.5	27.7	28.4	28.4	28.4	28.4	28.4	29.0	29.0	29.0	29.7	29.7	29.7
≥ 18000	10.3	24.5	26.5	27.7	28.4	28.4	28.4	28.4	28.4	29.0	29.0	29.0	29.7	29.7	29.7
≥ 16000	10.3	24.5	26.5	27.7	28.4	28.4	28.4	28.4	28.4	29.0	29.0	29.0	29.7	29.7	29.7
≥ 14000	10.3	24.5	26.5	27.7	28.4	28.4	28.4	28.4	28.4	29.0	29.0	29.0	29.7	29.7	29.7
≥ 12000	10.3	24.5	26.5	27.7	28.4	28.4	28.4	28.4	28.4	29.0	29.0	29.0	29.7	29.7	29.7
≥ 10000	11.6	25.8	27.7	29.0	29.7	29.7	29.7	29.7	29.7	30.3	30.3	30.3	31.0	31.0	31.0
≥ 9000	11.6	25.8	27.7	29.0	29.7	29.7	29.7	29.7	29.7	30.3	30.3	30.3	31.0	31.0	31.0
≥ 8000	11.6	25.8	27.7	29.0	29.7	29.7	29.7	29.7	29.7	30.3	30.3	30.3	31.0	31.0	31.0
≥ 7000	11.6	26.5	28.4	29.7	30.3	30.3	30.3	30.3	30.3	31.0	31.0	31.0	31.6	31.6	31.6
≥ 6000	11.6	26.5	28.4	29.7	30.3	30.3	30.3	30.3	30.3	31.0	31.0	31.0	31.6	31.6	31.6
≥ 5000	11.6	26.5	28.4	29.7	30.3	30.3	30.3	30.3	30.3	31.0	31.0	31.0	31.6	31.6	31.6
≥ 4500	11.6	26.5	28.4	29.7	30.3	30.3	30.3	30.3	30.3	31.0	31.0	31.0	31.6	31.6	31.6
≥ 4000	11.6	27.7	29.7	31.0	31.6	31.6	31.6	31.6	31.6	32.3	32.3	32.3	32.9	32.9	32.9
≥ 3500	11.6	27.7	29.7	31.0	31.6	31.6	31.6	31.6	31.6	32.3	32.3	32.3	32.9	32.9	32.9
≥ 3000	11.6	28.4	30.3	31.6	32.3	32.3	32.3	32.3	32.3	32.9	32.9	32.9	33.6	33.6	33.6
≥ 2500	11.6	29.7	31.6	32.9	33.6	33.6	33.6	33.6	33.6	34.2	34.2	34.2	34.8	34.8	34.8
≥ 2000	14.2	33.6	35.5	36.8	37.4	37.4	37.4	37.4	37.4	38.1	38.1	38.1	38.7	38.7	38.7
≥ 1800	14.2	34.2	36.1	37.4	38.1	38.1	38.1	38.1	38.1	38.7	38.7	38.7	39.4	39.4	39.4
≥ 1500	15.5	40.7	43.2	44.5	45.2	45.2	45.2	45.2	45.2	45.8	45.8	45.8	46.5	46.5	46.5
≥ 1200	18.7	49.7	55.5	57.4	58.7	58.7	58.7	58.7	58.7	59.4	59.4	59.4	60.0	60.0	60.0
≥ 1000	20.0	58.1	64.5	67.7	69.7	69.7	69.7	69.7	69.7	70.3	70.3	70.3	71.0	71.0	71.0
≥ 900	20.7	60.0	67.1	71.0	72.9	72.9	72.9	72.9	72.9	73.6	73.6	73.6	74.2	74.2	74.2
≥ 800	20.7	61.3	69.7	74.2	76.1	76.1	76.1	76.1	76.1	76.8	76.8	76.8	77.4	77.4	77.4
≥ 700	20.7	64.5	72.9	77.4	79.4	79.4	79.4	79.4	79.4	80.0	80.0	80.0	80.7	80.7	80.7
≥ 600	20.7	69.0	80.7	85.8	87.7	87.7	87.7	87.7	87.7	88.4	88.4	88.4	89.0	89.0	89.0
≥ 500	20.7	71.6	83.9	89.0	91.0	91.0	91.0	91.0	91.0	92.3	92.3	92.3	92.9	92.9	92.9
≥ 400	20.7	72.3	84.5	89.7	93.6	93.6	93.6	94.2	94.2	95.5	95.5	95.5	96.1	96.1	96.1
≥ 300	20.7	72.3	84.5	90.3	94.2	94.2	94.2	95.5	95.5	96.8	96.8	96.8	97.4	97.4	97.4
≥ 200	20.7	72.3	84.5	90.3	94.8	94.8	94.8	95.5	96.1	98.1	98.1	98.1	99.4	99.4	99.4
≥ 100	20.7	72.3	84.5	90.3	94.8	94.8	94.8	95.5	96.1	98.1	98.1	98.1	99.4	99.4	99.4
≥ 0	20.7	72.3	84.5	90.3	94.8	94.8	94.8	95.5	96.1	98.1	98.1	98.1	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

MAY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	14.2	18.1	18.7	18.7	19.4	19.4	19.4	19.4	20.7	20.7	20.7	20.7	20.7	20.7
≥ 20000	14.8	18.7	18.7	19.4	20.0	20.0	20.0	20.0	20.0	21.3	21.3	21.3	21.3	21.3
≥ 18000	14.8	18.7	18.7	19.4	20.0	20.0	20.0	20.0	20.0	21.3	21.3	21.3	21.3	21.3
≥ 16000	14.8	18.7	18.7	19.4	20.0	20.0	20.0	20.0	20.0	21.3	21.3	21.3	21.3	21.3
≥ 14000	14.8	18.7	18.7	19.4	20.0	20.0	20.0	20.0	20.0	21.3	21.3	21.3	21.3	21.3
≥ 12000	14.8	18.7	18.7	19.4	20.0	20.0	20.0	20.0	20.0	21.3	21.3	21.3	21.3	21.3
≥ 10000	14.8	18.7	18.7	19.4	20.0	20.0	20.0	20.0	20.0	21.3	21.3	21.3	21.3	21.3
≥ 9000	14.8	18.7	18.7	19.4	20.0	20.0	20.0	20.0	20.0	21.3	21.3	21.3	21.3	21.3
≥ 8000	14.8	18.7	18.7	19.4	20.0	20.0	20.0	20.0	20.0	21.3	21.3	21.3	21.3	21.3
≥ 7000	15.5	19.4	19.4	20.0	20.7	20.7	20.7	20.7	20.7	21.9	21.9	21.9	21.9	21.9
≥ 6000	15.5	19.4	19.4	20.0	20.7	20.7	20.7	20.7	20.7	21.9	21.9	21.9	21.9	21.9
≥ 5000	15.5	19.4	19.4	20.0	20.7	20.7	20.7	20.7	20.7	21.9	21.9	21.9	21.9	21.9
≥ 4500	15.5	19.4	19.4	20.0	20.7	20.7	20.7	20.7	20.7	21.9	21.9	21.9	21.9	21.9
≥ 4000	16.8	21.3	21.3	21.9	22.6	22.6	22.6	22.6	22.6	23.9	23.9	23.9	23.9	23.9
≥ 3500	16.8	21.3	21.3	21.9	22.6	22.6	22.6	22.6	22.6	23.9	23.9	23.9	23.9	23.9
≥ 3000	20.7	25.2	25.2	25.8	26.5	26.5	26.5	26.5	26.5	27.7	27.7	27.7	27.7	27.7
≥ 2500	25.2	31.0	32.3	32.9	33.6	33.6	33.6	33.6	33.6	34.8	34.8	34.8	34.8	34.8
≥ 2000	25.2	32.3	33.6	34.2	34.8	34.8	34.8	34.8	34.8	36.1	36.1	36.1	36.1	36.1
≥ 1800	29.7	40.0	43.2	43.9	44.5	44.5	44.5	44.5	44.5	45.8	45.8	45.8	45.8	45.8
≥ 1500	33.6	49.7	52.9	53.6	54.8	54.8	54.8	54.8	54.8	56.1	56.1	56.1	56.1	56.1
≥ 1200	35.5	61.3	65.2	65.8	68.4	68.4	68.4	68.4	68.4	69.7	69.7	69.7	69.7	69.7
≥ 1000	38.1	64.5	68.4	69.7	72.3	72.3	72.3	72.3	72.3	73.6	73.6	73.6	73.6	73.6
≥ 900	38.7	66.5	70.3	72.3	74.8	75.5	75.5	75.5	75.5	76.8	76.8	76.8	76.8	76.8
≥ 800	40.0	69.0	73.6	76.8	79.4	80.0	80.0	80.0	80.0	81.3	81.3	81.3	81.3	81.3
≥ 700	40.7	71.0	76.1	80.0	82.6	83.2	83.2	83.2	83.2	84.5	84.5	84.5	84.5	84.5
≥ 600	40.7	71.6	76.8	81.9	85.2	85.8	85.8	85.8	85.8	87.1	87.1	87.1	87.1	87.1
≥ 500	40.7	71.6	78.1	83.2	86.5	87.1	87.1	87.1	87.1	88.4	88.4	88.4	88.4	88.4
≥ 400	40.7	71.6	78.1	83.2	87.1	87.7	87.7	87.7	87.7	89.0	89.0	89.0	89.0	89.0
≥ 300	40.7	71.6	78.1	83.2	87.1	87.7	87.7	87.7	87.7	89.0	89.0	89.0	89.0	89.0
≥ 200	40.7	71.6	78.1	83.2	87.7	88.4	88.4	88.4	88.4	89.7	89.7	89.7	89.7	89.7
≥ 100	40.7	71.6	78.1	83.2	87.7	88.4	88.4	88.4	88.4	89.7	89.7	89.7	89.7	89.7
≥ 0	40.7	71.6	78.1	83.2	87.7	88.4	88.4	88.4	88.4	89.7	89.7	89.7	89.7	89.7

155

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

MAY
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)10
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	18.7	24.5	25.8	26.5	27.7	27.7	27.7	27.7	27.7	29.0	29.0	29.0	29.0
≥ 20000	20.0	26.5	27.7	28.4	29.7	29.7	29.7	29.7	29.7	31.0	31.0	31.0	31.0
≥ 18000	20.0	26.5	27.7	28.4	29.7	29.7	29.7	29.7	29.7	31.0	31.0	31.0	31.0
≥ 16000	20.7	27.1	28.4	29.0	30.3	30.3	30.3	30.3	30.3	31.6	31.6	31.6	31.6
≥ 14000	20.7	27.1	28.4	29.0	30.3	30.3	30.3	30.3	30.3	31.6	31.6	31.6	31.6
≥ 12000	20.7	27.1	28.4	29.0	30.3	30.3	30.3	30.3	31.0	32.3	32.3	32.3	32.3
≥ 10000	20.7	27.1	28.4	29.0	30.3	30.3	30.3	31.0	31.0	32.3	32.3	32.3	32.3
≥ 9000	20.7	27.1	28.4	29.0	30.3	30.3	30.3	31.0	31.0	32.3	32.3	32.3	32.3
≥ 8000	20.7	27.1	28.4	29.0	30.3	30.3	30.3	31.0	31.0	32.3	32.3	32.3	32.3
≥ 7000	21.3	27.7	29.0	29.7	31.0	31.0	31.0	31.6	31.6	32.9	32.9	32.9	32.9
≥ 6000	21.3	27.7	29.0	29.7	31.0	31.0	31.0	31.6	31.6	32.9	32.9	32.9	32.9
≥ 5000	21.3	27.7	29.0	29.7	31.0	31.0	31.0	31.6	31.6	32.9	32.9	32.9	32.9
≥ 4500	21.3	27.7	29.0	29.7	31.0	31.0	31.0	31.6	31.6	32.9	32.9	32.9	32.9
≥ 4000	21.9	29.0	30.3	31.0	32.3	32.3	32.3	32.9	32.9	34.2	34.2	34.2	34.2
≥ 3500	21.9	29.0	30.3	31.0	32.3	32.3	32.3	32.9	32.9	34.2	34.2	34.2	34.2
≥ 3000	22.6	29.7	31.0	31.6	32.9	32.9	32.9	33.6	33.6	34.8	34.8	34.8	34.8
≥ 2500	25.8	33.6	34.8	35.5	36.8	36.8	36.8	37.4	37.4	38.7	38.7	38.7	38.7
≥ 2000	30.3	40.0	41.3	41.9	43.2	43.2	43.2	43.9	43.9	45.2	45.2	45.2	45.2
≥ 1800	31.0	41.9	43.2	43.9	45.2	45.2	45.2	45.8	45.8	47.1	47.1	47.1	47.1
≥ 1500	36.8	51.0	52.9	53.6	54.8	54.8	55.5	56.1	56.1	57.4	57.4	57.4	57.4
≥ 1200	41.3	59.4	61.9	63.2	64.5	64.5	65.2	65.8	65.8	67.1	67.1	67.1	67.1
≥ 1000	43.2	67.7	71.0	72.3	76.8	76.8	77.4	78.1	78.1	79.4	79.4	79.4	79.4
≥ 900	43.2	68.4	72.3	73.6	79.4	79.4	79.4	80.7	80.7	81.9	81.9	81.9	81.9
≥ 800	44.5	71.6	75.5	76.8	83.2	83.2	83.2	84.5	84.5	85.8	85.8	85.8	85.8
≥ 700	45.2	73.6	77.4	78.7	85.8	85.8	86.5	87.1	87.1	88.4	88.4	88.4	88.4
≥ 600	45.8	75.5	80.0	81.9	89.7	89.7	90.3	91.6	91.6	92.9	92.9	92.9	92.9
≥ 500	45.8	76.1	81.3	83.9	92.3	92.3	92.9	94.2	94.2	96.1	96.1	96.1	96.1
≥ 400	45.8	76.1	81.3	84.5	94.8	94.8	94.8	96.1	96.1	98.1	98.1	98.1	98.1
≥ 300	45.8	76.1	81.3	84.5	94.8	94.8	94.8	97.4	97.4	99.4	99.4	99.4	99.4
≥ 200	45.8	76.1	81.3	84.5	94.8	94.8	94.8	97.4	97.4	99.4	99.4	99.4	99.4
≥ 100	45.8	76.1	81.3	84.5	94.8	94.8	94.8	97.4	97.4	99.4	99.4	99.4	99.4
≥ 0	45.8	76.1	81.3	84.5	94.8	94.8	94.8	97.4	97.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117 STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

MAY

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	30.3	38.7	40.7	41.9	42.6	42.6	42.6	42.6	42.6	43.2	43.9	43.9	43.9	43.9	43.9
≥ 20000	32.3	40.7	42.6	43.9	44.5	44.5	44.5	44.5	44.5	45.2	45.8	45.8	45.8	45.8	45.8
≥ 18000	32.3	40.7	42.6	43.9	44.5	44.5	44.5	44.5	44.5	45.2	45.8	45.8	45.8	45.8	45.8
≥ 16000	32.3	40.7	42.6	43.9	44.5	44.5	44.5	44.5	44.5	45.2	45.8	45.8	45.8	45.8	45.8
≥ 14000	33.6	41.9	43.9	45.2	45.8	45.8	45.8	45.8	45.8	46.5	47.1	47.1	47.1	47.1	47.1
≥ 12000	33.6	41.9	43.9	45.2	45.8	45.8	45.8	45.8	45.8	46.5	47.1	47.1	47.1	47.1	47.1
≥ 10000	33.6	41.9	43.9	45.2	45.8	45.8	45.8	45.8	45.8	46.5	47.1	47.1	47.1	47.1	47.1
≥ 9000	33.6	41.9	43.9	45.2	45.8	45.8	45.8	45.8	45.8	46.5	47.1	47.1	47.1	47.1	47.1
≥ 8000	33.6	41.9	43.9	45.2	45.8	45.8	45.8	45.8	45.8	46.5	47.1	47.1	47.1	47.1	47.1
≥ 7000	34.2	42.6	44.5	45.8	46.5	46.5	46.5	46.5	46.5	47.1	47.7	47.7	47.7	47.7	47.7
≥ 6000	34.2	42.6	44.5	45.8	46.5	46.5	46.5	46.5	46.5	47.1	47.7	47.7	47.7	47.7	47.7
≥ 5000	34.2	42.6	44.5	45.8	46.5	46.5	46.5	46.5	46.5	47.1	47.7	47.7	47.7	47.7	47.7
≥ 4500	34.2	42.6	44.5	45.8	46.5	46.5	46.5	46.5	46.5	47.1	47.7	47.7	47.7	47.7	47.7
≥ 4000	34.8	43.2	45.2	46.5	47.1	47.1	47.1	47.1	47.1	47.7	48.4	48.4	48.4	48.4	48.4
≥ 3500	34.8	43.2	45.2	46.5	47.1	47.1	47.1	47.1	47.1	47.7	48.4	48.4	48.4	48.4	48.4
≥ 3000	35.1	44.5	46.5	47.7	48.4	48.4	48.4	48.4	48.4	49.0	49.7	49.7	49.7	49.7	49.7
≥ 2500	37.4	47.1	49.0	50.3	51.0	51.0	51.0	51.0	51.0	51.6	52.3	52.3	52.3	52.3	52.3
≥ 2000	40.0	51.0	52.9	54.2	54.8	54.8	54.8	54.8	54.8	55.5	56.1	56.1	56.1	56.1	56.1
≥ 1800	41.9	53.6	55.5	56.8	57.4	57.4	57.4	57.4	57.4	58.1	58.7	58.7	58.7	58.7	58.7
≥ 1500	45.8	61.3	63.9	65.8	66.5	66.5	66.5	66.5	66.5	67.1	67.7	67.7	67.7	67.7	67.7
≥ 1200	47.7	67.7	71.0	74.2	74.8	74.8	74.8	74.8	74.8	75.5	76.1	76.1	76.1	76.1	76.1
≥ 1000	49.7	74.2	78.1	82.6	83.2	83.2	83.2	83.2	83.2	83.9	84.5	84.5	84.5	84.5	84.5
≥ 900	50.3	76.1	81.3	86.5	87.7	87.7	87.7	87.7	87.7	88.4	89.0	89.0	89.0	89.0	89.0
≥ 800	51.0	77.4	83.2	89.0	90.3	90.3	90.3	90.3	90.3	91.0	91.6	91.6	91.6	91.6	91.6
≥ 700	51.0	78.1	84.5	91.0	92.3	92.3	92.3	92.3	92.3	93.6	94.2	94.2	94.2	94.2	94.2
≥ 600	51.6	80.0	87.1	94.2	96.1	96.1	96.1	96.1	96.1	97.4	98.7	98.7	98.7	98.7	98.7
≥ 500	51.6	80.0	87.1	94.2	96.8	96.8	96.8	96.8	96.8	98.1	99.4	99.4	99.4	99.4	99.4
≥ 400	51.6	80.0	87.1	94.2	96.8	96.8	96.8	96.8	96.8	98.1	99.4	99.4	99.4	99.4	99.4
≥ 300	51.6	80.0	87.1	94.2	97.4	97.4	97.4	97.4	97.4	98.7	99.4	99.4	99.4	99.4	99.4
≥ 200	51.6	80.0	87.1	94.2	97.4	97.4	97.4	97.4	97.4	98.7	99.4	99.4	99.4	99.4	99.4
≥ 100	51.6	80.0	87.1	94.2	97.4	97.4	97.4	97.4	97.4	98.7	99.4	99.4	99.4	99.4	99.4
≥ 0	51.6	80.0	87.1	94.2	97.4	97.4	97.4	97.4	97.4	98.7	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

MAY

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

16

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING	29.7	36.1	38.7	38.7	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
≥ 20000	31.6	38.1	40.7	40.7	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 18000	31.6	38.1	40.7	40.7	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 16000	31.6	38.1	40.7	40.7	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 14000	31.6	38.1	40.7	40.7	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 12000	32.3	38.7	41.3	41.3	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
≥ 10000	34.2	40.7	43.2	43.2	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
≥ 9000	34.2	40.7	43.2	43.2	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
≥ 8000	34.2	40.7	43.2	43.2	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
≥ 7000	34.8	41.3	43.9	43.9	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
≥ 6000	34.8	41.3	43.9	43.9	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
≥ 5000	34.8	41.3	43.9	43.9	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
≥ 4500	34.6	41.3	43.9	43.9	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
≥ 4000	36.1	42.6	45.2	45.2	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
≥ 3500	36.1	42.6	45.2	45.2	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
≥ 3000	36.8	43.9	46.5	46.5	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 2500	38.1	45.2	47.7	47.7	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥ 2000	40.7	50.3	52.9	52.9	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 1800	40.7	50.3	52.9	52.9	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 1500	41.9	55.5	58.7	58.7	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 1200	45.8	63.9	67.7	67.7	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 1000	51.0	72.3	76.8	78.1	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 900	52.3	76.8	81.3	83.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 800	54.2	80.0	84.5	87.1	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 700	54.8	81.3	86.5	90.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 600	55.5	83.2	88.4	92.3	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 500	55.5	83.2	88.4	92.3	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 400	55.5	83.2	88.4	92.3	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 300	55.5	83.2	88.4	92.3	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 200	55.5	83.2	88.4	92.3	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 100	55.5	83.2	88.4	92.3	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1
0	55.5	83.2	88.4	92.3	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1

TOTAL NUMBER OF OBSERVATIONS

155

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

MAY
MONTH

19
HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	28.4	38.1	40.7	41.3	41.3	41.3	41.9	42.6	42.6	42.6	42.6	42.6	42.6
≥ 20000	30.3	41.3	43.9	45.2	45.2	45.2	45.8	46.5	46.5	46.5	46.5	46.5	46.5
≥ 18000	30.3	41.3	43.9	45.2	45.2	45.2	45.8	46.5	46.5	46.5	46.5	46.5	46.5
≥ 16000	30.3	41.3	43.9	45.2	45.2	45.2	45.8	46.5	46.5	46.5	46.5	46.5	46.5
≥ 14000	30.3	41.3	43.9	45.2	45.2	45.2	45.8	46.5	46.5	46.5	46.5	46.5	46.5
≥ 12000	30.3	41.3	43.9	45.2	45.2	45.2	45.8	46.5	46.5	46.5	46.5	46.5	46.5
≥ 10000	30.3	41.3	43.9	45.2	45.2	45.2	45.8	46.5	46.5	46.5	46.5	46.5	46.5
≥ 9000	30.3	41.3	43.9	45.2	45.2	45.2	45.8	46.5	46.5	46.5	46.5	46.5	46.5
≥ 8000	30.3	41.3	43.9	45.2	45.2	45.2	45.8	46.5	46.5	46.5	46.5	46.5	46.5
≥ 7000	30.3	41.3	43.9	45.2	45.2	45.2	45.8	46.5	46.5	46.5	46.5	46.5	46.5
≥ 6000	30.3	41.3	43.9	45.2	45.2	45.2	45.8	46.5	46.5	46.5	46.5	46.5	46.5
≥ 5000	30.3	41.3	43.9	45.2	45.2	45.2	45.8	46.5	46.5	46.5	46.5	46.5	46.5
≥ 4500	30.3	41.3	43.9	45.2	45.2	45.2	45.8	46.5	46.5	46.5	46.5	46.5	46.5
≥ 4000	30.3	41.3	43.9	45.2	45.2	45.2	45.8	46.5	46.5	46.5	46.5	46.5	46.5
≥ 3500	30.3	41.3	43.9	45.2	45.2	45.2	45.8	46.5	46.5	46.5	46.5	46.5	46.5
≥ 3000	31.0	41.9	44.5	45.8	45.8	45.8	46.5	47.1	47.1	47.1	47.1	47.1	47.1
≥ 2500	31.6	42.6	45.2	46.5	46.5	46.5	47.1	47.7	47.7	47.7	47.7	47.7	47.7
≥ 2000	34.2	45.8	48.4	49.7	49.7	49.7	50.3	51.0	51.0	51.0	51.0	51.0	51.0
≥ 1800	34.2	45.8	48.4	49.7	49.7	49.7	50.3	51.0	51.0	51.0	51.0	51.0	51.0
≥ 1500	38.1	54.2	56.8	58.1	58.1	58.1	58.7	59.4	59.4	59.4	59.4	59.4	59.4
≥ 1200	41.3	60.0	63.2	64.5	64.5	64.5	65.2	65.8	65.8	65.8	65.8	65.8	65.8
≥ 1000	45.2	69.7	73.6	74.8	76.1	76.1	76.8	77.4	77.4	77.4	77.4	77.4	77.4
≥ 900	47.1	72.9	76.8	78.1	79.4	79.4	80.0	80.7	80.7	80.7	80.7	80.7	80.7
≥ 800	49.7	76.8	81.3	82.6	85.2	85.2	85.8	86.5	86.5	86.5	86.5	86.5	86.5
≥ 700	50.3	78.7	83.2	84.5	87.7	87.7	88.4	89.0	89.0	89.0	89.0	89.0	89.0
≥ 600	51.0	81.9	87.7	90.3	93.6	93.6	94.2	94.8	94.8	94.8	94.8	94.8	94.8
≥ 500	51.6	83.2	89.0	91.6	95.5	95.5	96.8	97.4	97.4	97.4	97.4	97.4	97.4
≥ 400	51.6	83.2	89.0	91.6	95.5	95.5	96.8	97.4	97.4	97.4	97.4	97.4	97.4
≥ 300	51.6	83.2	89.0	91.6	96.8	96.8	98.1	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200	51.6	83.2	89.0	91.6	96.8	96.8	98.1	98.7	98.7	98.7	98.7	98.7	98.7
≥ 100	51.6	83.2	89.0	91.6	96.8	96.8	98.1	98.7	98.7	98.7	98.7	98.7	98.7
≥ 0	51.6	83.2	89.0	91.6	96.8	96.8	98.1	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

MAY

MONTH

22

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	16.1	36.1	38.1	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 20000	16.1	36.1	38.1	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 18000	16.1	36.1	38.1	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 16000	16.1	36.1	38.1	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 14000	16.1	36.8	38.7	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
≥ 12000	16.1	36.8	38.7	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
≥ 10000	16.1	37.4	39.4	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
≥ 9000	16.1	37.4	39.4	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
≥ 8000	16.1	37.4	39.4	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
≥ 7000	16.1	37.4	39.4	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
≥ 6000	16.1	37.4	39.4	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
≥ 5000	16.1	37.4	39.4	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
≥ 4500	16.1	37.4	39.4	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
≥ 4000	16.1	37.4	39.4	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
≥ 3500	16.1	37.4	39.4	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
≥ 3000	16.1	38.1	40.0	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
≥ 2500	16.1	39.4	41.3	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
≥ 2000	18.7	43.9	45.8	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
≥ 1800	19.4	44.5	46.5	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 1500	21.9	49.7	51.6	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 1200	24.5	57.4	60.0	61.3	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 1000	26.5	68.4	72.3	74.2	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 900	27.1	70.3	74.2	76.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 800	27.7	71.6	75.5	77.4	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 700	27.7	77.4	83.2	85.2	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 600	28.4	80.7	87.7	89.7	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 500	28.4	80.7	87.7	90.3	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 400	28.4	80.7	87.7	90.3	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 300	28.4	80.7	88.4	91.6	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 200	28.4	80.7	88.4	91.6	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 100	28.4	80.7	88.4	91.6	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 0	28.4	80.7	88.4	91.6	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4

TOTAL NUMBER OF OBSERVATIONS

125

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

MAY
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING	20.2	31.3	33.1	33.7	34.2	34.2	34.3	34.4	34.4	34.9	35.0
≥ 20000	21.2	32.6	34.4	35.1	35.6	35.6	35.7	35.8	35.8	36.4	36.5
≥ 18000	21.2	32.6	34.4	35.1	35.6	35.6	35.7	35.8	35.8	36.4	36.5
≥ 16000	21.3	32.7	34.4	35.2	35.7	35.7	35.7	35.9	35.9	36.5	36.5
≥ 14000	21.5	32.9	34.7	35.4	35.9	35.9	36.0	36.1	36.1	36.7	36.8
≥ 12000	21.5	33.0	34.8	35.5	36.0	36.0	36.1	36.3	36.3	36.9	36.9
≥ 10000	21.9	33.5	35.2	36.0	36.5	36.5	36.5	36.8	36.8	37.3	37.4
≥ 9000	21.9	33.5	35.2	36.0	36.5	36.5	36.5	36.8	36.8	37.3	37.4
≥ 8000	21.9	33.5	35.2	36.0	36.5	36.5	36.5	36.8	36.8	37.3	37.4
≥ 7000	22.3	33.9	35.7	36.4	36.9	36.9	36.9	37.2	37.2	37.7	37.8
≥ 6000	22.3	33.9	35.7	36.4	36.9	36.9	36.9	37.2	37.2	37.7	37.8
≥ 5000	22.3	33.9	35.7	36.4	36.9	36.9	36.9	37.2	37.2	37.7	37.8
≥ 4500	22.3	33.9	35.7	36.4	36.9	36.9	36.9	37.2	37.2	37.7	37.8
≥ 4000	22.7	34.8	36.5	37.3	37.7	37.7	37.8	38.1	38.1	38.6	38.7
≥ 3500	22.7	34.8	36.5	37.3	37.7	37.7	37.8	38.1	38.1	38.6	38.7
≥ 3000	23.2	35.5	37.3	38.0	38.5	38.5	38.6	38.8	38.8	39.4	39.4
≥ 2500	24.4	37.5	39.3	40.0	40.5	40.5	40.6	40.8	40.8	41.4	41.5
≥ 2000	27.4	42.0	44.0	44.7	45.2	45.2	45.2	45.5	45.5	46.1	46.1
≥ 1800	27.9	43.1	45.0	45.7	46.3	46.3	46.4	46.6	46.6	47.2	47.3
≥ 1500	31.1	50.1	52.6	53.5	54.0	54.0	54.2	54.4	54.4	55.0	55.1
≥ 1200	34.4	58.1	61.6	62.9	63.9	63.9	64.0	64.3	64.3	64.8	64.9
≥ 1000	36.8	67.3	71.5	73.5	75.4	75.4	75.6	75.8	75.8	76.4	76.5
≥ 900	37.7	69.6	74.2	76.6	78.9	78.9	79.0	79.3	79.3	79.8	79.9
≥ 800	38.7	71.7	76.6	79.4	82.3	82.3	82.6	82.8	82.8	83.4	83.5
≥ 700	39.2	74.4	79.9	83.2	86.2	86.4	86.6	86.9	86.9	87.4	87.5
≥ 600	39.8	77.3	83.9	87.7	91.0	91.2	91.8	92.1	92.1	92.7	92.7
≥ 500	39.8	78.0	84.9	89.3	93.0	93.2	94.0	94.4	94.4	95.1	95.2
≥ 400	39.8	78.1	85.2	89.7	94.0	94.3	95.3	95.9	95.9	96.6	96.7
≥ 300	39.8	78.1	85.3	89.9	94.8	95.0	96.3	97.4	97.4	98.2	98.2
≥ 200	39.8	78.1	85.3	89.9	95.0	95.2	96.8	97.7	97.7	98.6	98.7
≥ 100	39.8	78.1	85.3	89.9	95.0	95.2	96.8	97.7	97.7	98.7	98.9
≥ 0	39.8	78.1	85.3	89.9	95.0	95.2	96.8	97.7	97.7	98.7	98.9

TOTAL NUMBER OF OBSERVATIONS

1240

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

JUN
MONTH01
HOURS (L.S.T.)PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	13.3	32.0	33.3	34.0	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
≥ 20000	13.3	32.0	33.3	34.0	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
≥ 18000	13.3	32.0	33.3	34.0	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
≥ 16000	13.3	32.0	33.3	34.0	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
≥ 14000	13.3	32.0	33.3	34.0	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
≥ 12000	13.3	32.0	33.3	34.0	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
≥ 10000	14.0	33.3	34.7	35.3	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
≥ 9000	14.0	33.3	34.7	35.3	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
≥ 8000	14.0	33.3	34.7	35.3	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
≥ 7000	14.0	33.3	34.7	35.3	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
≥ 6000	14.0	33.3	34.7	35.3	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
≥ 5000	14.0	33.3	34.7	35.3	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
≥ 4500	14.0	33.3	34.7	35.3	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
≥ 4000	14.0	34.0	35.3	36.0	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7
≥ 3500	14.0	34.0	35.3	36.0	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7
≥ 3000	14.0	34.0	35.3	36.0	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7
≥ 2500	14.7	35.3	36.7	37.3	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
≥ 2000	16.0	38.7	40.0	40.7	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 1800	16.7	39.3	40.7	41.3	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
≥ 1500	19.3	46.7	48.0	48.7	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
≥ 1200	20.0	52.7	54.0	54.7	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 1000	20.7	59.3	61.3	62.0	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 900	20.7	64.0	67.3	68.0	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 800	20.7	66.0	69.3	70.7	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 700	20.7	71.3	74.7	76.7	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 600	21.3	73.3	78.0	81.3	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 500	21.3	76.0	80.7	84.7	86.0	86.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 400	21.3	77.3	83.3	87.3	89.3	89.3	90.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 300	21.3	77.3	84.0	89.3	91.3	91.3	92.0	94.7	94.7	95.3	95.3	95.3	95.3	95.3
≥ 200	21.3	77.3	84.0	89.3	91.3	91.3	92.0	94.7	94.7	96.0	96.0	96.0	96.0	96.0
≥ 100	21.3	78.0	84.7	90.0	92.0	92.0	93.3	96.7	96.7	98.0	98.0	98.0	98.0	98.0
0	21.3	78.0	84.7	90.0	92.0	92.0	93.3	96.7	96.7	98.0	98.0	98.0	98.0	98.0

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

JUN

MONTH

04

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	7.3	23.3	24.7	24.7	25.3	25.3	25.3	25.3	25.3	25.3	26.0	26.0	26.0
≥ 20000	7.3	23.3	24.7	24.7	25.3	25.3	25.3	25.3	25.3	25.3	26.0	26.0	26.0
≥ 18000	7.3	23.3	24.7	24.7	25.3	25.3	25.3	25.3	25.3	25.3	26.0	26.0	26.0
≥ 16000	7.3	23.3	24.7	24.7	25.3	25.3	25.3	25.3	25.3	25.3	26.0	26.0	26.0
≥ 14000	7.3	23.3	24.7	24.7	25.3	25.3	25.3	25.3	25.3	25.3	26.0	26.0	26.0
≥ 12000	7.3	23.3	24.7	24.7	25.3	25.3	25.3	25.3	25.3	25.3	26.0	26.0	26.0
≥ 10000	7.3	24.0	25.3	25.3	26.0	26.0	26.0	26.0	26.0	26.0	26.7	26.7	26.7
≥ 9000	7.3	24.0	25.3	25.3	26.0	26.0	26.0	26.0	26.0	26.0	26.7	26.7	26.7
≥ 8000	7.3	24.0	25.3	25.3	26.0	26.0	26.0	26.0	26.0	26.0	26.7	26.7	26.7
≥ 7000	7.3	24.0	25.3	25.3	26.0	26.0	26.0	26.0	26.0	26.0	26.7	26.7	26.7
≥ 6000	7.3	24.0	25.3	25.3	26.0	26.0	26.0	26.0	26.0	26.0	26.7	26.7	26.7
≥ 5000	8.0	24.7	26.0	26.0	26.7	26.7	26.7	26.7	26.7	26.7	27.3	27.3	27.3
≥ 4500	8.0	24.7	26.0	26.0	26.7	26.7	26.7	26.7	26.7	26.7	27.3	27.3	27.3
≥ 4000	8.0	26.0	27.3	27.3	28.0	28.0	28.0	28.0	28.0	28.0	28.7	28.7	28.7
≥ 3500	8.0	26.0	27.3	27.3	28.0	28.0	28.0	28.0	28.0	28.0	28.7	28.7	28.7
≥ 3000	9.3	27.3	29.3	29.3	30.0	30.0	30.0	30.0	30.0	30.0	30.7	30.7	30.7
≥ 2500	10.0	28.7	30.7	30.7	31.3	31.3	31.3	31.3	31.3	31.3	32.0	32.0	32.0
≥ 2000	10.7	30.0	32.0	32.0	32.7	32.7	32.7	32.7	32.7	32.7	33.3	33.3	33.3
≥ 1800	12.0	31.3	33.3	33.3	34.0	34.0	34.0	34.0	34.0	34.0	34.7	34.7	34.7
≥ 1500	14.7	39.3	41.3	41.3	42.0	42.0	42.0	42.0	42.0	42.0	42.7	42.7	42.7
≥ 1200	17.3	47.3	49.3	49.3	50.0	50.0	50.0	50.0	50.0	50.0	50.7	50.7	50.7
≥ 1000	18.7	54.7	57.3	57.3	58.7	59.3	59.3	59.3	59.3	59.3	60.0	60.0	60.0
≥ 900	19.3	60.0	64.0	65.3	66.0	66.0	66.0	66.0	66.0	66.0	66.7	66.7	66.7
≥ 800	19.3	62.0	66.7	68.7	69.3	69.3	69.3	69.3	69.3	69.3	70.0	70.0	70.0
≥ 700	20.0	68.0	73.3	76.0	76.7	76.7	76.7	76.7	76.7	76.7	77.3	77.3	77.3
≥ 600	21.3	70.0	76.7	80.0	80.7	80.7	80.7	80.7	80.7	80.7	81.3	81.3	81.3
≥ 500	21.3	73.3	81.3	85.3	86.0	86.0	86.0	86.0	86.0	86.0	88.0	88.0	88.0
≥ 400	21.3	74.0	82.7	87.3	88.0	88.0	88.0	88.0	88.0	88.0	91.3	91.3	91.3
≥ 300	21.3	74.0	82.7	88.7	90.0	90.0	90.0	90.0	90.0	90.0	94.7	94.7	94.7
≥ 200	21.3	74.0	82.7	88.7	90.0	90.0	90.0	90.0	90.0	90.0	95.3	95.3	95.3
≥ 100	21.3	74.7	83.3	89.3	90.7	90.7	90.7	90.7	90.7	90.7	97.3	97.3	97.3
≥ 0	21.3	74.7	83.3	89.3	90.7	90.7	90.7	90.7	90.7	90.7	98.0	98.0	98.0

TOTAL NUMBER OF OBSERVATIONS

150

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

JUN
MONTH07
HOURS (L.S.T.)PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	7.3	18.7	19.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
≥ 20000	7.3	18.7	19.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
18000	7.3	18.7	19.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
16000	7.3	18.7	19.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
14000	7.3	18.7	19.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
12000	7.3	18.7	19.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
10000	7.3	18.7	19.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
9000	7.3	18.7	19.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
8000	7.3	18.7	19.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
7000	7.3	18.7	19.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
6000	7.3	18.7	19.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
5000	8.0	19.3	20.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
4500	8.0	19.3	20.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
4000	8.7	20.7	21.3	23.3	23.3	23.3	24.0	24.0	24.0	24.0	24.0	24.0	24.0
3500	8.7	20.7	21.3	23.3	23.3	23.3	24.0	24.0	24.0	24.0	24.0	24.0	24.0
3000	10.0	22.0	22.7	24.7	24.7	24.7	25.3	25.3	25.3	25.3	25.3	25.3	25.3
2500	10.7	22.7	23.3	25.3	25.3	25.3	26.0	26.0	26.0	26.0	26.0	26.0	26.0
2000	12.0	24.0	24.7	26.7	26.7	26.7	27.3	27.3	27.3	27.3	27.3	27.3	27.3
1800	12.0	24.7	25.3	27.3	27.3	27.3	28.0	28.0	28.0	28.0	28.0	28.0	28.0
1500	22.7	38.0	38.7	40.7	40.7	40.7	41.3	41.3	41.3	41.3	41.3	41.3	41.3
1200	28.0	50.7	52.0	54.0	54.0	54.0	54.7	54.7	54.7	54.7	54.7	54.7	54.7
1000	30.7	57.3	59.3	62.0	62.0	62.0	62.7	62.7	62.7	62.7	62.7	62.7	62.7
900	32.0	60.0	62.0	65.3	65.3	65.3	66.0	66.7	66.7	66.7	66.7	66.7	66.7
800	32.7	62.7	66.0	69.3	69.3	69.3	70.0	70.7	70.7	70.7	70.7	70.7	70.7
700	35.3	70.0	74.0	78.0	78.0	78.0	80.0	80.7	80.7	80.7	80.7	80.7	80.7
600	36.7	74.0	81.3	86.0	87.3	87.3	88.7	89.3	89.3	89.3	89.3	89.3	89.3
500	36.7	74.7	82.0	87.3	89.3	89.3	91.3	92.0	92.0	92.0	92.0	92.0	92.0
400	36.7	74.7	82.7	88.0	90.0	90.0	92.7	93.3	93.3	93.3	93.3	93.3	93.3
300	36.7	74.7	82.7	89.3	91.3	91.3	94.7	95.3	95.3	95.3	96.0	96.0	96.0
200	36.7	74.7	82.7	89.3	91.3	91.3	94.7	95.3	95.3	96.0	96.7	96.7	96.7
100	36.7	74.7	82.7	89.3	91.3	91.3	94.7	95.0	96.0	97.3	98.0	98.0	98.0
0	36.7	74.7	82.7	89.3	91.3	91.3	94.7	96.0	96.0	97.3	98.0	98.0	98.0

TOTAL NUMBER OF OBSERVATIONS

150

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

JUN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	11.3	24.0	26.7	27.3	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
≥ 20000	11.3	24.7	28.0	28.7	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3
≥ 18000	11.3	24.7	28.0	28.7	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3
≥ 16000	11.3	24.7	28.0	28.7	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3
≥ 14000	11.3	24.7	28.0	28.7	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3
≥ 12000	11.3	24.7	28.0	28.7	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3
≥ 10000	11.3	25.3	28.7	29.3	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
≥ 9000	11.3	25.3	28.7	29.3	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
≥ 8000	11.3	25.3	28.7	29.3	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
≥ 7000	11.3	25.3	28.7	29.3	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
≥ 6000	11.3	25.3	28.7	29.3	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
≥ 5000	11.3	25.3	28.7	29.3	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
≥ 4500	11.3	25.3	28.7	29.3	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
≥ 4000	12.7	26.7	30.0	30.7	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
≥ 3500	12.7	26.7	30.0	30.7	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
≥ 3000	14.7	28.7	32.0	32.7	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
≥ 2500	16.7	31.3	34.7	35.3	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
≥ 2000	20.7	35.3	38.7	39.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
≥ 1800	22.0	36.7	40.7	41.3	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
≥ 1500	30.7	45.7	53.3	54.0	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 1200	34.7	58.0	62.7	63.3	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 1000	40.0	66.7	72.0	73.3	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 900	41.3	70.0	75.3	78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 800	43.3	74.0	80.0	83.3	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 700	44.7	76.0	82.0	87.3	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 600	44.7	76.0	84.0	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 500	44.7	76.0	86.0	92.7	94.0	94.7	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 400	44.7	76.7	86.7	93.3	94.7	95.3	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 300	44.7	76.7	86.7	93.3	94.7	95.3	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 200	44.7	76.7	86.7	93.3	94.7	95.3	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 100	44.7	76.7	86.7	93.3	94.7	95.3	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 0	44.7	76.7	86.7	93.3	94.7	95.3	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3

150

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

JUN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING	16.0	33.3	37.3	38.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 20000	19.3	39.3	43.3	44.0	44.7	44.7	45.3	45.3	45.3	45.3	45.3
≥ 18000	19.3	39.3	43.3	44.0	44.7	44.7	45.3	45.3	45.3	45.3	45.3
≥ 16000	19.3	39.3	43.3	44.0	44.7	44.7	45.3	45.3	45.3	45.3	45.3
≥ 14000	19.3	39.3	43.3	44.0	44.7	44.7	45.3	45.3	45.3	45.3	45.3
≥ 12000	19.3	39.3	43.3	44.0	44.7	44.7	45.3	45.3	45.3	45.3	45.3
≥ 10000	19.3	39.3	43.3	44.0	44.7	44.7	45.3	45.3	45.3	45.3	45.3
≥ 9000	19.3	39.3	43.3	44.0	44.7	44.7	45.3	45.3	45.3	45.3	45.3
≥ 8000	19.3	39.3	44.0	44.7	45.3	45.3	46.0	46.0	46.0	46.0	46.0
≥ 7000	20.0	40.0	44.7	45.3	46.0	46.0	46.7	46.7	46.7	46.7	46.7
≥ 6000	20.0	40.0	44.7	45.3	46.0	46.0	46.7	46.7	46.7	46.7	46.7
≥ 5000	20.7	40.7	45.3	46.0	46.7	46.7	47.3	47.3	47.3	47.3	47.3
≥ 4500	20.7	40.7	45.3	46.0	46.7	46.7	47.3	47.3	47.3	47.3	47.3
≥ 4000	20.7	40.7	45.3	46.0	46.7	46.7	47.3	47.3	47.3	47.3	47.3
≥ 3500	20.7	40.7	45.3	46.0	46.7	46.7	47.3	47.3	47.3	47.3	47.3
≥ 3000	21.3	41.3	46.0	46.7	47.3	47.3	48.0	48.0	48.0	48.0	48.0
≥ 2500	24.7	44.7	49.3	50.0	50.7	50.7	51.3	51.3	51.3	51.3	51.3
≥ 2000	27.3	47.3	52.7	53.3	54.0	54.0	54.7	54.7	54.7	54.7	54.7
≥ 1800	29.3	49.3	54.7	55.3	56.0	56.0	56.7	56.7	56.7	56.7	56.7
≥ 1500	34.0	60.0	66.0	66.7	67.3	67.3	68.0	68.0	68.0	68.0	68.0
≥ 1200	38.0	68.0	74.0	75.3	76.0	76.0	76.7	76.7	76.7	76.7	76.7
≥ 1000	40.0	72.0	79.3	81.3	82.0	82.0	82.7	82.7	82.7	82.7	82.7
≥ 900	41.3	74.7	82.0	84.0	84.7	84.7	85.0	85.0	85.0	85.0	85.0
≥ 800	42.0	77.3	84.7	86.7	88.7	88.7	90.0	90.0	90.0	90.0	90.0
≥ 700	42.7	79.3	87.3	89.3	91.3	91.3	92.7	92.7	92.7	92.7	92.7
≥ 600	43.3	81.3	90.0	93.3	95.3	95.3	96.7	96.7	96.7	96.7	96.7
≥ 500	43.3	82.0	91.3	95.3	97.3	97.3	99.3	99.3	99.3	99.3	99.3
≥ 400	43.3	82.0	91.3	95.3	97.3	97.3	100.0	100.0	100.0	100.0	100.0
≥ 300	43.3	82.0	91.3	95.3	97.3	97.3	100.0	100.0	100.0	100.0	100.0
≥ 200	43.3	82.0	91.3	95.3	97.3	97.3	100.0	100.0	100.0	100.0	100.0
≥ 100	43.3	82.0	91.3	95.3	97.3	97.3	100.0	100.0	100.0	100.0	100.0
0	43.3	82.0	91.3	95.3	97.3	97.3	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

150

2

12225

2225

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93117

SAN CLEMENTE, CALIFORNIA

73-77

JUN

STATION

STATION NAME

YEARS

MONTH

16

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING	26.0	38.7	40.7	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
≥ 20000	26.0	42.0	44.0	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 18000	28.0	42.0	44.0	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 16000	28.0	42.0	44.0	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 14000	28.0	42.0	44.0	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 12000	28.0	42.0	44.0	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 10000	28.0	42.0	44.0	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 9000	28.0	42.0	44.0	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 8000	28.0	42.0	44.0	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 7000	28.0	42.0	44.0	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 6000	28.0	42.0	44.0	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 5000	28.0	42.0	44.0	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 4500	28.0	42.0	44.0	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 4000	28.0	42.0	44.0	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 3500	28.0	42.0	44.0	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 3000	28.0	42.0	44.0	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 2500	30.7	46.0	48.0	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
≥ 2000	32.7	48.7	51.3	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥ 1800	34.0	50.0	52.7	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥ 1500	38.7	56.7	59.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 1200	42.0	63.3	66.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 1000	44.0	68.0	71.3	73.3	73.3	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 900	46.0	70.7	75.3	77.3	77.3	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 800	46.0	72.7	76.7	80.7	81.3	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 700	47.3	79.3	85.3	88.0	88.7	90.0	90.7	90.7	90.7	90.7	90.7	90.7
≥ 600	48.0	81.3	89.3	93.3	94.0	95.3	96.0	96.0	96.0	96.0	96.0	96.0
≥ 500	48.0	81.3	89.3	93.3	95.3	96.7	97.3	97.3	97.3	97.3	97.3	97.3
≥ 400	48.0	81.3	89.3	94.0	96.0	97.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300	48.0	81.3	89.3	94.0	96.0	97.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 200	48.0	81.3	89.3	94.0	96.0	97.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 100	48.0	81.3	89.3	94.0	96.0	97.3	99.3	99.3	99.3	99.3	99.3	99.3
0	48.0	81.3	89.3	94.0	96.0	97.3	99.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

JUN
MONTH

19
HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	20.7	37.3	38.7	38.7	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
≥ 20000	20.7	37.3	39.3	39.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
18000	20.7	37.3	39.3	39.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
≥ 16000	20.7	37.3	39.3	39.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
14000	20.7	37.3	39.3	39.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
≥ 12000	20.7	37.3	39.3	39.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
10000	20.7	38.0	40.0	40.0	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
≥ 9000	20.7	38.0	40.0	40.0	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
8000	20.7	38.0	40.0	40.0	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
≥ 7000	20.7	38.0	40.0	40.0	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
6000	20.7	38.0	40.0	40.0	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
≥ 5000	20.7	38.0	40.0	40.0	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
4500	20.7	38.0	40.0	40.0	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
≥ 4000	20.7	38.7	40.7	40.7	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
3500	20.7	38.7	40.7	40.7	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 3000	20.7	38.7	40.7	40.7	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
2500	22.0	40.0	42.0	42.0	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 2000	25.3	43.3	45.3	45.3	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
1800	25.3	43.3	45.3	45.3	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
≥ 1500	30.0	50.0	52.0	52.7	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
1200	32.7	57.3	59.3	60.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 1000	38.0	64.0	66.7	68.0	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
900	38.7	67.3	71.3	72.7	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 800	39.3	71.3	75.3	76.7	78.0	78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7
700	42.0	76.7	81.3	83.3	84.7	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 600	42.7	78.0	83.3	85.3	86.7	86.7	88.0	88.0	88.0	88.0	88.0	88.0	88.0
500	44.0	80.0	86.7	88.7	91.3	91.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 400	44.7	81.3	88.7	90.7	93.3	93.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0
300	44.7	81.3	88.7	91.3	94.0	94.0	96.7	97.3	97.3	97.3	97.3	97.3	97.3
≥ 200	44.7	81.3	88.7	91.3	94.0	94.0	96.7	97.3	98.0	98.0	98.7	99.3	99.3
100	44.7	81.3	88.7	91.3	94.0	94.0	96.7	97.3	98.0	98.0	98.7	99.3	99.3
0	44.7	81.3	88.7	91.3	94.0	94.0	96.7	97.3	98.0	98.0	98.7	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION
93117

STATION NAME
SAN CLEMENTE, CALIFORNIA

73-77

YEARS

MONTH
JUN

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L S T)
22

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	15.0	35.3	36.7	37.3	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
≥ 20000	16.7	36.0	37.3	38.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 18000	16.7	36.0	37.3	38.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 16000	16.7	36.0	37.3	38.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 14000	16.7	36.0	37.3	38.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 12000	16.7	36.0	37.3	38.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 10000	16.7	36.0	37.3	38.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 9000	16.7	36.0	37.3	38.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 8000	16.7	36.0	37.3	38.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 7000	16.7	36.0	37.3	38.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 6000	16.7	36.0	37.3	38.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 5000	16.7	36.0	37.3	38.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 4500	16.7	36.0	37.3	38.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 4000	16.7	36.0	37.3	38.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 3500	16.7	36.0	37.3	38.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 3000	16.7	36.0	37.3	38.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 2500	16.7	36.0	37.3	38.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 2000	19.3	39.3	40.7	41.3	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
≥ 1800	19.3	39.3	41.3	42.0	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 1500	23.3	48.7	50.7	52.0	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥ 1200	24.0	54.0	56.0	57.3	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 1000	24.0	59.3	61.3	62.7	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 900	25.3	64.7	67.3	68.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 800	25.3	70.0	73.3	74.7	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 700	26.0	74.0	78.7	80.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 600	26.0	76.0	82.0	84.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 500	26.0	76.7	83.3	85.3	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 400	26.0	78.0	84.7	87.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 300	26.0	78.0	84.7	88.7	91.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 200	26.0	78.0	84.7	88.7	91.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 100	26.0	78.0	84.7	88.7	91.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
0	26.0	78.0	84.7	88.7	91.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0

TOTAL NUMBER OF OBSERVATIONS

150

CEILING VERSUS VISIBILITY

STATION
93117

STATION NAME
SAN CLEMENTE, CALIFORNIA

73-77

YEARS

JUN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (LST.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING	15.0	30.3	32.2	32.9	33.4	33.4	33.4	33.4	33.4	33.4	33.5	33.5
≥ 20000	15.5	31.7	33.7	34.4	34.9	34.9	35.0	35.0	35.0	35.0	35.2	35.2
AI 18000	15.5	31.7	33.7	34.4	34.9	34.9	35.0	35.0	35.0	35.0	35.2	35.2
AI 16000	15.5	31.7	33.7	34.4	34.9	34.9	35.0	35.0	35.0	35.0	35.2	35.2
AI 14000	15.5	31.7	33.7	34.4	34.9	34.9	35.0	35.0	35.0	35.0	35.2	35.2
AI 12000	15.5	31.7	33.7	34.4	34.9	34.9	35.0	35.0	35.0	35.0	35.2	35.2
AI 10000	15.6	32.2	34.2	34.9	35.4	35.4	35.5	35.5	35.5	35.5	35.7	35.7
AI 9000	15.6	32.2	34.2	34.9	35.4	35.4	35.5	35.5	35.5	35.5	35.7	35.7
AI 8000	15.6	32.2	34.2	35.0	35.5	35.5	35.6	35.6	35.6	35.6	35.8	35.8
AI 7000	15.7	32.3	34.3	35.1	35.6	35.6	35.7	35.7	35.7	35.7	35.8	35.8
AI 6000	15.7	32.3	34.3	35.1	35.6	35.6	35.7	35.7	35.7	35.7	35.8	35.8
AI 5000	15.9	32.5	34.6	35.3	35.8	35.8	35.9	35.9	35.9	36.1	36.1	36.1
AI 4500	15.9	32.5	34.6	35.3	35.8	35.8	35.9	35.9	35.9	36.1	36.1	36.1
AI 4000	16.2	33.3	35.4	36.2	36.7	36.7	36.8	36.8	36.8	37.0	37.0	37.0
AI 3500	16.2	33.3	35.4	36.2	36.7	36.7	36.8	36.8	36.8	37.0	37.0	37.0
AI 3000	16.9	34.1	36.3	37.0	37.5	37.5	37.7	37.7	37.7	37.8	37.8	37.8
AI 2500	18.3	35.7	37.8	38.6	39.1	39.1	39.3	39.3	39.3	39.4	39.4	39.4
AI 2000	20.5	38.3	40.7	41.4	41.9	41.9	42.1	42.1	42.1	42.3	42.3	42.3
AI 1800	21.3	39.3	41.6	42.5	43.0	43.0	43.2	43.2	43.2	43.3	43.3	43.3
AI 1500	26.7	48.5	51.2	52.2	52.7	52.7	52.8	52.8	52.8	53.0	53.0	53.0
AI 1200	29.6	56.4	59.2	60.3	60.8	60.8	61.0	61.0	61.0	61.2	61.2	61.2
AI 1000	32.0	62.7	66.1	67.7	68.2	68.3	68.4	68.4	68.4	68.6	68.6	68.6
AI 900	33.1	66.4	70.6	72.4	72.9	73.1	73.3	73.4	73.4	73.6	73.6	73.6
AI 800	33.6	69.5	74.3	76.3	77.3	77.5	78.0	78.1	78.1	78.3	78.3	78.3
AI 700	34.8	74.3	79.6	82.4	83.7	83.8	84.4	84.5	84.5	84.7	84.7	84.7
AI 600	35.5	76.3	83.1	86.8	88.0	88.2	89.1	89.2	89.2	89.3	89.3	89.3
AI 500	35.7	77.5	85.1	89.1	90.9	91.2	92.6	92.8	92.8	93.0	93.0	93.0
AI 400	35.8	78.2	86.2	90.4	92.3	92.7	94.8	95.2	95.3	95.4	95.4	95.4
AI 300	35.8	78.2	86.3	91.3	93.3	93.6	95.9	96.6	97.1	97.3	97.3	97.3
AI 200	35.8	78.2	86.3	91.3	93.3	93.6	96.0	96.7	96.8	97.6	97.9	98.1
AI 100	35.8	78.3	86.4	91.4	93.4	93.8	96.3	97.3	97.5	98.3	98.7	98.9
AI 0	35.8	78.3	86.4	91.4	93.4	93.8	96.3	97.3	97.5	98.5	98.8	99.1

TOTAL NUMBER OF OBSERVATIONS 1200

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

7-3-77

YEARS

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING	4.5	22.6	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
≥ 20000	4.5	22.6	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
≥ 18000	4.5	22.6	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
≥ 16000	4.5	22.6	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
≥ 14000	4.5	22.6	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
≥ 12000	4.5	22.6	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
≥ 10000	4.5	22.6	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
≥ 9000	4.5	22.6	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
≥ 8000	4.5	22.6	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
≥ 7000	4.5	22.6	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
≥ 6000	4.5	22.6	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
≥ 5000	4.5	22.6	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
≥ 4500	4.5	22.6	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
≥ 4000	4.5	23.2	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
≥ 3500	4.5	23.2	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
≥ 3000	4.5	23.2	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
≥ 2500	5.2	23.9	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥ 2000	5.2	24.5	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7
≥ 1800	5.2	25.2	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
≥ 1500	5.8	29.0	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2
≥ 1200	7.1	36.1	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 1000	9.7	47.7	53.6	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 900	9.7	52.3	58.1	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 800	11.6	61.9	69.0	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 700	12.3	67.1	74.2	75.5	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 600	12.9	69.0	78.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 500	12.9	70.3	81.3	83.9	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 400	12.9	72.9	83.9	86.5	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 300	12.9	74.2	85.2	88.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 200	12.9	74.2	85.2	89.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 100	12.9	74.2	85.2	89.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 0	12.9	74.2	85.2	89.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

JUL
MONTH04
HOURS (L.S.T.)PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	1.9	13.6	15.5	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
≥ 20000	1.9	13.6	15.5	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
≥ 18000	1.9	13.6	15.5	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
≥ 16000	1.9	13.6	15.5	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
≥ 14000	1.9	13.6	15.5	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
≥ 12000	1.9	13.6	15.5	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
≥ 10000	1.9	13.6	15.5	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
≥ 9000	1.9	14.2	16.1	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
≥ 8000	1.9	14.2	16.1	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
≥ 7000	1.9	14.2	16.1	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
≥ 6000	1.9	14.2	16.1	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
≥ 5000	1.9	14.2	16.1	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
≥ 4500	1.9	14.2	16.1	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
≥ 4000	1.9	14.2	16.1	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
≥ 3500	1.9	14.2	16.1	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
≥ 3000	1.9	14.8	16.8	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
≥ 2500	2.6	15.5	17.4	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
≥ 2000	2.6	15.5	17.4	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
≥ 1800	2.6	16.1	18.1	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7
≥ 1500	2.6	21.3	23.2	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9
≥ 1200	4.5	29.7	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 1000	5.8	40.7	43.2	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
≥ 900	7.1	44.5	47.7	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 800	9.0	53.6	57.4	59.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 700	9.7	60.7	65.8	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 600	10.3	66.5	73.6	77.4	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 500	10.3	67.1	77.4	83.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 400	10.3	70.3	81.9	87.7	90.3	91.0	91.6	92.3	92.3	92.3	92.3	92.3	92.3
≥ 300	10.3	70.3	82.6	88.4	92.3	93.6	94.2	94.8	94.8	94.8	94.8	94.8	94.8
≥ 200	10.3	70.3	82.6	88.4	92.3	93.6	94.2	94.8	94.8	94.8	94.8	94.8	94.8
≥ 100	10.3	70.3	82.6	88.4	92.3	93.6	94.2	94.8	94.8	94.8	94.8	94.8	94.8
0	10.3	70.3	82.6	88.4	92.3	93.6	94.2	94.8	94.8	94.8	94.8	94.8	94.8

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77
YEARS

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ ¾	≥ ½
NO CEILING	3.9	12.3	12.9	12.9	13.6	13.6	13.6	13.6	13.6	13.6	13.6
≥ 20000	3.9	12.3	12.9	12.9	13.6	13.6	13.6	13.6	13.6	13.6	13.6
18000	3.9	12.3	12.9	12.9	13.6	13.6	13.6	13.6	13.6	13.6	13.6
16000	3.9	12.3	12.9	12.9	13.6	13.6	13.6	13.6	13.6	13.6	13.6
14000	3.9	12.3	12.9	12.9	13.6	13.6	13.6	13.6	13.6	13.6	13.6
12000	3.9	12.3	12.9	12.9	13.6	13.6	13.6	13.6	13.6	13.6	13.6
10000	3.9	12.3	12.9	12.9	13.6	13.6	13.6	13.6	13.6	13.6	13.6
9000	3.9	12.3	12.9	12.9	13.6	13.6	13.6	13.6	13.6	13.6	13.6
8000	3.9	12.3	12.9	12.9	13.6	13.6	13.6	13.6	13.6	13.6	13.6
7000	3.9	12.3	12.9	12.9	13.6	13.6	13.6	13.6	13.6	13.6	13.6
6000	3.9	12.3	12.9	12.9	13.6	13.6	13.6	13.6	13.6	13.6	13.6
5000	3.9	12.3	12.9	12.9	13.6	13.6	13.6	13.6	13.6	13.6	13.6
4500	3.9	12.3	12.9	12.9	13.6	13.6	13.6	13.6	13.6	13.6	13.6
4000	3.9	12.3	12.9	12.9	13.6	13.6	13.6	13.6	13.6	13.6	13.6
3500	3.9	12.3	12.9	12.9	13.6	13.6	13.6	13.6	13.6	13.6	13.6
3000	3.9	12.3	12.9	12.9	13.6	13.6	13.6	13.6	13.6	13.6	13.6
2500	4.5	13.6	14.2	14.2	15.5	15.5	15.5	15.5	15.5	15.5	15.5
2000	5.8	15.5	16.1	16.1	17.4	17.4	17.4	17.4	17.4	17.4	17.4
1800	5.8	17.4	18.1	18.1	19.4	19.4	19.4	19.4	19.4	19.4	19.4
1500	8.4	24.5	25.2	25.2	27.1	27.1	27.1	27.1	27.1	27.1	27.1
1200	13.6	36.8	37.4	38.7	40.0	40.0	40.0	40.0	40.0	40.0	40.0
1000	18.1	49.7	50.3	51.6	52.9	52.9	52.9	52.9	52.9	52.9	52.9
900	18.1	53.6	54.2	56.1	57.4	57.4	57.4	57.4	57.4	57.4	57.4
800	19.4	58.7	60.0	63.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
700	20.0	60.7	63.2	67.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3
600	21.9	65.8	71.0	76.8	80.7	80.7	80.7	80.7	80.7	80.7	80.7
500	22.6	68.4	74.2	81.3	87.1	87.1	87.1	87.1	87.1	87.1	87.1
400	22.6	70.3	76.1	83.9	90.3	90.3	91.0	91.0	91.0	91.0	91.0
300	22.6	71.0	77.4	85.8	92.9	92.9	93.6	94.8	95.5	95.5	96.1
200	22.6	71.0	77.4	85.8	93.6	93.6	94.2	95.5	96.8	96.8	98.1
100	22.6	71.0	77.4	85.8	93.6	93.6	94.2	95.5	96.8	97.4	98.7
0	22.6	71.0	77.4	85.8	93.6	93.6	94.2	95.5	96.8	97.4	98.7

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

JUL
MONTH

10

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	9.7	22.6	25.2	25.8	26.5	26.5	27.1	27.1	27.1	27.1	27.1	27.1	27.1
≥ 20000	9.7	23.2	25.8	26.5	27.1	27.1	27.7	27.7	27.7	27.7	27.7	27.7	27.7
≥ 18000	9.7	23.2	25.8	26.5	27.1	27.1	27.7	27.7	27.7	27.7	27.7	27.7	27.7
≥ 16000	9.7	23.2	25.8	26.5	27.1	27.1	27.7	27.7	27.7	27.7	27.7	27.7	27.7
≥ 14000	9.7	23.2	25.8	26.5	27.1	27.1	27.7	27.7	27.7	27.7	27.7	27.7	27.7
≥ 12000	10.3	25.2	28.4	29.0	29.7	29.7	30.3	30.3	30.3	30.3	30.3	30.3	30.3
≥ 10000	10.3	25.8	29.0	29.7	31.0	31.0	31.6	31.6	31.6	31.6	31.6	31.6	31.6
≥ 9000	10.3	25.8	29.0	29.7	31.0	31.0	31.6	31.6	31.6	31.6	31.6	31.6	31.6
≥ 8000	10.3	26.5	29.7	30.3	31.6	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 7000	10.3	26.5	29.7	30.3	31.6	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 6000	10.3	26.5	29.7	30.3	31.6	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 5000	10.3	26.5	29.7	30.3	31.6	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 4500	10.3	26.5	29.7	30.3	31.6	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 4000	10.3	26.5	29.7	30.3	31.6	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 3500	10.3	26.5	29.7	30.3	31.6	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 3000	10.3	26.5	29.7	30.3	31.6	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 2500	11.6	27.7	31.0	31.6	32.9	32.9	33.6	33.6	33.6	33.6	33.6	33.6	33.6
≥ 2000	14.2	30.3	33.6	34.2	35.5	35.5	36.1	36.1	36.1	36.1	36.1	36.1	36.1
≥ 1800	15.5	32.9	36.1	36.8	38.1	38.1	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 1500	18.7	42.6	45.8	46.5	47.7	47.7	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥ 1200	23.2	52.3	56.1	56.8	58.1	58.1	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 1000	24.5	58.1	62.6	63.9	65.2	65.2	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 900	24.5	58.7	63.2	66.5	67.7	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 800	27.7	66.5	73.6	78.1	79.4	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 700	29.7	70.3	77.4	81.9	83.9	83.9	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 600	29.7	71.6	79.4	85.8	87.7	87.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 500	29.7	74.8	82.6	90.3	92.9	92.9	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 400	30.3	76.1	83.9	92.3	94.8	94.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 300	30.3	76.1	83.9	92.3	94.8	94.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 200	30.3	76.1	83.9	92.3	94.8	94.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 100	30.3	76.1	83.9	92.3	94.8	94.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 0	30.3	76.1	83.9	92.3	94.8	94.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	18.1	36.8	41.3	42.6	43.9	43.9	43.9	43.9	43.9	44.5	45.2	45.2	45.2	45.2
≥ 20000	18.7	37.4	41.9	43.2	44.5	44.5	44.5	44.5	44.5	45.2	45.8	45.8	45.8	45.8
≥ 18000	18.7	37.4	41.9	43.2	44.5	44.5	44.5	44.5	44.5	45.2	45.8	45.8	45.8	45.8
≥ 16000	18.7	37.4	41.9	43.2	44.5	44.5	44.5	44.5	44.5	45.2	45.8	45.8	45.8	45.8
≥ 14000	18.7	37.4	41.9	43.2	44.5	44.5	44.5	44.5	44.5	45.2	45.8	45.8	45.8	45.8
≥ 12000	19.4	39.4	43.9	45.8	47.1	47.1	47.1	47.1	47.1	47.7	48.4	48.4	48.4	48.4
≥ 10000	19.4	39.4	43.9	45.8	47.1	47.1	47.1	47.1	47.1	47.7	48.4	48.4	48.4	48.4
≥ 9000	19.4	39.4	43.9	45.8	47.1	47.1	47.1	47.1	47.1	47.7	48.4	48.4	48.4	48.4
≥ 8000	19.4	40.7	45.2	47.1	49.0	49.0	49.0	49.0	49.0	49.7	50.3	50.3	50.3	50.3
≥ 7000	19.4	40.7	45.2	47.1	49.0	49.0	49.0	49.0	49.0	49.7	50.3	50.3	50.3	50.3
≥ 6000	19.4	40.7	45.2	47.1	49.0	49.0	49.0	49.0	49.0	49.7	50.3	50.3	50.3	50.3
≥ 5000	19.4	40.7	45.2	47.1	49.0	49.0	49.0	49.0	49.0	49.7	50.3	50.3	50.3	50.3
≥ 4500	19.4	40.7	45.2	47.1	49.0	49.0	49.0	49.0	49.0	49.7	50.3	50.3	50.3	50.3
≥ 4000	19.4	40.7	45.2	47.1	49.0	49.0	49.0	49.0	49.0	49.7	50.3	50.3	50.3	50.3
≥ 3500	19.4	40.7	45.2	47.1	49.0	49.0	49.0	49.0	49.0	49.7	50.3	50.3	50.3	50.3
≥ 3000	19.4	40.7	45.2	47.1	49.0	49.0	49.0	49.0	49.0	49.7	50.3	50.3	50.3	50.3
≥ 2500	20.0	41.3	45.8	47.7	49.7	49.7	49.7	49.7	49.7	50.3	51.0	51.0	51.0	51.0
≥ 2000	20.0	41.3	45.8	47.7	49.7	49.7	49.7	49.7	49.7	50.3	51.0	51.0	51.0	51.0
≥ 1800	22.6	43.9	48.4	50.3	52.3	52.3	52.3	52.3	52.3	52.9	53.6	53.6	53.6	53.6
≥ 1500	27.1	53.6	58.7	60.7	62.6	62.6	62.6	62.6	62.6	63.2	63.9	63.9	63.9	63.9
≥ 1200	27.7	57.4	63.2	65.2	67.1	67.1	67.1	67.1	67.1	67.7	68.4	68.4	68.4	68.4
≥ 1000	29.7	63.2	69.0	71.6	73.6	73.6	73.6	73.6	73.6	74.2	74.8	74.8	74.8	74.8
≥ 900	31.0	68.4	73.5	78.7	80.7	80.7	80.7	80.7	80.7	81.3	81.9	81.9	81.9	81.9
≥ 800	32.3	70.3	80.0	83.2	85.2	85.2	85.2	85.2	85.2	85.8	86.5	86.5	86.5	86.5
≥ 700	34.2	72.3	82.6	87.1	89.0	89.0	89.0	89.0	89.0	89.7	90.3	90.3	90.3	90.3
≥ 600	34.8	74.2	85.8	91.6	94.2	94.2	94.2	94.2	94.2	94.8	95.5	95.5	95.5	95.5
≥ 500	34.8	74.8	87.1	94.2	96.8	96.8	96.8	96.8	96.8	97.4	98.1	98.1	98.1	98.1
≥ 400	34.8	74.8	87.1	94.2	96.8	96.8	96.8	96.8	96.8	97.4	98.1	98.1	98.1	98.1
≥ 300	34.8	74.8	87.1	94.2	96.8	96.8	96.8	96.8	96.8	97.4	98.1	98.1	98.1	98.1
≥ 200	34.8	74.8	87.1	94.2	96.8	96.8	96.8	96.8	96.8	97.4	98.1	98.1	98.1	98.1
≥ 100	34.8	74.8	87.1	94.2	96.8	96.8	96.8	96.8	96.8	97.4	98.1	98.1	98.1	98.1
≥ 0	34.8	74.8	87.1	94.2	96.8	96.8	96.8	96.8	96.8	97.4	98.1	98.1	98.1	98.1

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING	16.8	33.6	37.4	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
≥ 20000	17.4	34.2	38.1	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 18000	17.4	34.2	38.1	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 16000	17.4	34.2	38.1	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 14000	17.4	34.2	38.7	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
≥ 12000	17.4	34.8	40.0	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
≥ 10000	17.4	36.1	41.3	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
≥ 9000	17.4	36.1	41.3	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
≥ 8000	17.4	36.8	41.9	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
≥ 7000	17.4	36.8	41.9	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
≥ 6000	17.4	36.8	41.9	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
≥ 5000	17.4	36.8	41.9	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
≥ 4500	17.4	36.8	41.9	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
≥ 4000	17.4	36.8	41.9	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
≥ 3500	17.4	36.8	41.9	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
≥ 3000	17.4	36.8	41.9	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
≥ 2500	18.7	38.1	43.2	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
≥ 2000	19.4	38.7	43.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 1800	19.4	38.7	43.9	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 1500	22.6	45.8	51.0	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 1200	25.2	53.6	60.7	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 1000	27.1	63.2	70.3	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 900	28.4	67.7	75.5	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 800	30.3	71.6	80.0	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 700	31.6	75.5	84.5	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 600	33.6	79.4	90.3	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 500	34.2	81.9	92.9	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 400	34.2	82.6	93.6	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300	34.8	83.2	94.2	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 200	34.8	83.2	94.2	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 100	34.8	83.2	94.2	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
0	34.8	83.2	94.2	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155

12130000

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION 93117 SAN CLEMENTE, CALIFORNIA 73-77 YEARS JUL MONTH 19 HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														≥ 0
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	
NO CEILING	12.9	23.2	25.2	26.5	26.5	26.5	26.5	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
≥ 20000	12.9	25.2	27.1	28.4	28.4	28.4	28.4	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥ 18000	12.9	25.2	27.1	28.4	28.4	28.4	28.4	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥ 16000	12.9	25.2	27.1	28.4	28.4	28.4	28.4	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥ 14000	12.9	25.2	27.1	28.4	28.4	28.4	28.4	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥ 12000	12.9	25.8	27.7	29.0	29.0	29.0	29.0	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7
≥ 10000	12.9	26.5	28.4	29.7	29.7	29.7	29.7	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
≥ 9000	12.9	26.5	28.4	29.7	29.7	29.7	29.7	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
≥ 8000	12.9	26.5	28.4	29.7	29.7	29.7	29.7	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
≥ 7000	12.9	26.5	28.4	29.7	29.7	29.7	29.7	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
≥ 6000	12.9	26.5	28.4	29.7	29.7	29.7	29.7	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
≥ 5000	12.9	26.5	28.4	29.7	29.7	29.7	29.7	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
≥ 4500	12.9	26.5	28.4	29.7	29.7	29.7	29.7	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
≥ 4000	12.9	27.1	29.0	30.3	30.3	30.3	30.3	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
≥ 3500	12.9	27.1	29.0	30.3	30.3	30.3	30.3	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
≥ 3000	12.9	27.1	29.0	30.3	30.3	30.3	30.3	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
≥ 2500	12.9	27.1	29.0	30.3	30.3	30.3	30.3	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
≥ 2000	12.9	27.1	29.0	30.3	30.3	30.3	30.3	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
≥ 1800	13.6	28.4	30.3	31.6	31.6	31.6	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 1500	16.1	32.9	34.8	36.1	36.1	36.1	36.1	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
≥ 1200	18.7	42.6	45.8	47.1	47.1	47.1	47.1	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 1000	22.6	56.8	61.9	63.9	63.9	63.9	63.9	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 900	22.6	60.0	65.2	67.1	67.1	67.1	67.1	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 800	25.8	65.8	71.6	74.2	74.2	74.2	74.2	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 700	26.5	71.0	76.8	79.4	80.0	80.0	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 600	29.0	74.2	80.7	83.9	85.8	85.8	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 500	29.0	78.1	85.2	88.4	91.0	91.0	91.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 400	30.3	80.7	89.0	93.6	96.1	96.1	96.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 300	30.3	80.7	89.0	93.6	96.8	96.8	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200	30.3	80.7	89.0	93.6	96.8	96.8	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 100	30.3	80.7	89.0	93.6	96.8	96.8	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 0	30.3	80.7	89.0	93.6	96.8	96.8	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS 155

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEAR

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	5.8	27.1	27.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	30.3	30.3
≥ 20000	5.8	27.1	27.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	30.3	30.3
≥ 18000	5.8	27.1	27.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	30.3	30.3
≥ 16000	5.8	27.1	27.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	30.3	30.3
≥ 14000	5.8	27.1	27.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	30.3	30.3
≥ 12000	5.8	27.1	28.4	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	31.0	31.0
≥ 10000	5.8	27.1	28.4	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	31.0	31.0
≥ 9000	5.8	27.1	28.4	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	31.0	31.0
≥ 8000	5.8	27.7	29.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.6	31.6
≥ 7000	5.8	27.7	29.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.6	31.6
≥ 6000	5.8	27.7	29.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.6	31.6
≥ 5000	5.8	27.7	29.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.6	31.6
≥ 4500	5.8	27.7	29.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.6	31.6
≥ 4000	5.8	27.7	29.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.6	31.6
≥ 3500	5.8	27.7	29.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.6	31.6
≥ 3000	5.8	27.7	29.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.6	31.6
≥ 2500	6.5	29.0	30.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.9	32.9
≥ 2000	6.5	29.0	30.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.9	32.9
≥ 1800	6.5	29.7	31.0	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	33.6	33.6
≥ 1500	7.7	34.8	36.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.7	38.7
≥ 1200	9.0	42.6	43.9	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	46.5	46.5
≥ 1000	11.6	53.6	54.8	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	58.1	58.1
≥ 900	12.3	56.8	58.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.9	61.9
≥ 800	14.2	66.5	69.0	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.9	72.9
≥ 700	14.2	69.0	73.6	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8	77.4	77.4
≥ 600	14.8	71.6	77.4	81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6	83.2	83.2
≥ 500	14.8	72.3	79.4	84.3	85.8	85.8	85.8	85.8	85.8	85.8	85.8	86.5	86.5
≥ 400	14.8	74.8	83.9	89.7	91.6	91.6	91.6	91.6	92.3	92.3	92.3	92.9	92.9
≥ 300	14.8	76.1	85.2	91.0	93.6	93.6	93.6	94.2	95.5	95.5	95.5	96.1	96.1
≥ 200	14.8	76.1	85.2	91.0	93.6	93.6	93.6	94.2	96.1	96.8	96.8	97.4	97.4
≥ 100	14.8	76.1	85.2	91.0	93.6	93.6	93.6	94.2	96.1	98.7	98.7	99.4	99.4
≥ 0	14.6	76.1	85.2	91.0	93.6	93.6	93.6	94.2	96.1	98.7	98.7	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

JUL
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	9.2	24.0	26.5	27.7	28.0	28.0	28.1	28.2	28.2	28.2	28.3	28.3	28.5	28.5
≥ 20000	9.4	24.4	27.0	28.2	28.5	28.5	28.6	28.6	28.6	28.7	28.8	28.8	29.0	29.0
≥ 18000	9.4	24.4	27.0	28.2	28.5	28.5	28.6	28.6	28.6	28.7	28.8	28.8	29.0	29.0
≥ 16000	9.4	24.4	27.0	28.2	28.5	28.5	28.6	28.6	28.6	28.7	28.8	28.8	29.0	29.0
≥ 14000	9.4	24.4	27.1	28.3	28.6	28.6	28.7	28.6	28.8	28.9	29.0	29.0	29.1	29.1
≥ 12000	9.5	25.1	28.0	29.2	29.6	29.6	29.7	29.8	29.8	29.8	29.9	29.9	30.1	30.1
≥ 10000	9.5	25.6	28.5	29.7	30.2	30.2	30.3	30.4	30.4	30.5	30.6	30.6	30.7	30.7
≥ 9000	9.5	25.6	28.5	29.7	30.2	30.2	30.3	30.4	30.4	30.5	30.6	30.6	30.7	30.7
≥ 8000	9.5	26.0	28.9	30.1	30.7	30.7	30.7	30.8	30.8	30.9	31.0	31.0	31.1	31.1
≥ 7000	9.5	26.0	28.9	30.1	30.7	30.7	30.7	30.8	30.8	30.9	31.0	31.0	31.1	31.1
≥ 6000	9.5	26.0	28.9	30.1	30.7	30.7	30.7	30.8	30.8	30.9	31.0	31.0	31.1	31.1
≥ 5000	9.5	26.0	28.9	30.1	30.7	30.7	30.7	30.8	30.8	30.9	31.0	31.0	31.1	31.1
≥ 4500	9.5	26.0	28.9	30.1	30.7	30.7	30.7	30.8	30.8	30.9	31.0	31.0	31.1	31.1
≥ 4000	9.5	26.1	29.1	30.3	30.9	30.9	31.0	31.1	31.1	31.1	31.2	31.2	31.4	31.4
≥ 3500	9.5	26.1	29.1	30.3	30.9	30.9	31.0	31.1	31.1	31.1	31.2	31.2	31.4	31.4
≥ 3000	9.5	26.2	29.2	30.4	31.0	31.0	31.1	31.1	31.1	31.2	31.3	31.3	31.5	31.5
≥ 2500	10.2	27.0	30.0	31.2	31.8	31.8	31.9	31.9	31.9	32.0	32.1	32.1	32.3	32.3
≥ 2000	10.8	27.7	30.7	31.9	32.5	32.5	32.6	32.7	32.7	32.7	32.8	32.8	33.0	33.0
≥ 1800	11.4	29.0	32.0	33.2	33.8	33.8	33.9	34.0	34.0	34.0	34.1	34.1	34.3	34.3
≥ 1500	13.6	35.6	38.6	39.9	40.5	40.5	40.6	40.7	40.7	40.7	40.8	40.8	41.0	41.0
≥ 1200	16.1	43.9	47.5	48.9	49.4	49.4	49.5	49.6	49.6	49.7	49.8	49.8	49.9	49.9
≥ 1000	18.6	54.1	58.2	60.1	60.7	60.7	60.7	60.8	60.8	60.9	61.0	61.0	61.1	61.1
≥ 900	19.2	57.7	62.3	64.5	65.1	65.1	65.2	65.2	65.2	65.3	65.4	65.4	65.6	65.6
≥ 800	21.3	64.4	70.1	72.9	73.9	73.9	74.0	74.0	74.0	74.1	74.2	74.2	74.4	74.4
≥ 700	22.3	68.3	74.8	77.9	79.0	79.0	79.1	79.2	79.2	79.3	79.4	79.4	79.5	79.5
≥ 600	23.4	71.5	79.6	84.0	85.7	85.7	85.9	86.0	86.0	86.1	86.1	86.1	86.3	86.3
≥ 500	23.6	73.5	82.5	87.9	90.3	90.3	90.7	90.7	90.7	91.1	91.1	91.1	91.3	91.3
≥ 400	23.8	75.3	84.9	90.7	93.5	93.5	94.4	94.8	94.8	95.1	95.2	95.2	95.3	95.3
≥ 300	23.9	75.8	85.6	91.5	94.8	94.8	96.2	97.0	97.1	97.5	97.6	97.6	97.9	97.9
≥ 200	23.9	75.8	85.6	91.6	94.9	94.9	96.4	97.3	97.4	98.1	98.2	98.2	98.6	98.6
≥ 100	23.9	75.8	85.6	91.6	94.9	94.9	96.4	97.3	97.5	98.4	98.8	98.8	99.3	99.3
≥ 0	23.9	75.8	85.6	91.6	94.9	94.9	96.4	97.3	97.5	98.4	98.8	98.8	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS

1240

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

AUG
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)01
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING	10.3	25.2	26.5	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
≥ 20000	10.3	25.6	27.1	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
≥ 18000	10.3	25.8	27.1	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
≥ 16000	10.3	25.8	27.1	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
≥ 14000	10.3	25.8	27.1	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
≥ 12000	10.3	25.8	27.1	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
≥ 10000	10.3	25.8	27.1	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
≥ 9000	10.3	25.8	27.1	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
≥ 8000	10.3	25.8	27.1	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
≥ 7000	10.3	25.8	27.1	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
≥ 6000	10.3	25.8	27.1	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
≥ 5000	10.3	25.8	27.1	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
≥ 4500	10.3	25.8	27.1	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
≥ 4000	10.3	26.5	27.7	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
≥ 3500	10.3	26.5	27.7	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
≥ 3000	11.0	27.1	28.4	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
≥ 2500	11.0	27.7	29.0	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7
≥ 2000	12.3	29.0	30.3	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
≥ 1800	12.9	29.7	31.0	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6
≥ 1500	14.2	31.6	32.9	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6
≥ 1200	15.5	36.8	38.1	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 1000	16.8	48.4	50.3	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 900	17.4	50.3	52.9	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 800	20.0	59.4	62.6	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 700	20.0	65.2	69.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 600	20.0	71.0	75.5	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 500	20.0	75.5	80.0	85.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 400	20.0	76.8	81.9	89.0	93.6	93.6	94.8	94.8	94.8	94.8	94.8	94.8
≥ 300	20.0	77.4	82.6	90.3	94.8	94.8	96.1	96.1	96.1	96.1	96.1	96.1
≥ 200	20.0	77.4	82.6	90.3	95.5	95.5	96.8	96.8	96.8	97.4	97.4	98.1
≥ 100	20.0	77.4	82.6	90.3	95.5	95.5	96.8	96.8	96.8	97.4	98.1	98.7
≥ 0	20.0	77.4	82.6	90.3	95.5	95.5	96.8	96.8	96.8	97.4	98.1	98.7

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

AUG
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

U4

HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	7.1	18.7	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
≥ 20000	7.1	19.4	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
≥ 18000	7.1	19.4	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
≥ 16000	7.1	19.4	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
≥ 14000	7.1	19.4	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
≥ 12000	7.1	19.4	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
≥ 10000	7.1	19.4	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
≥ 9000	7.1	19.4	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
≥ 8000	7.1	19.4	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
≥ 7000	7.1	19.4	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
≥ 6000	7.1	19.4	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
≥ 5000	7.1	19.4	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
≥ 4500	7.1	19.4	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
≥ 4000	7.1	19.4	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
≥ 3500	7.1	19.4	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
≥ 3000	7.1	19.4	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
≥ 2500	6.4	21.9	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
≥ 2000	9.0	22.6	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9	23.9
≥ 1800	9.7	23.2	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
≥ 1500	11.6	28.4	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.7
≥ 1200	12.9	34.2	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
≥ 1000	13.6	45.8	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 900	14.8	49.7	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 800	16.8	55.5	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 700	16.8	61.9	66.5	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 600	17.4	68.4	74.2	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 500	17.4	71.0	78.7	81.9	82.6	82.6	83.9	83.9	83.9	84.5	84.5	84.5	84.5
≥ 400	17.4	71.6	80.0	84.5	89.0	89.0	91.0	91.0	91.0	91.6	91.6	91.6	91.6
≥ 300	17.4	72.9	82.6	87.7	92.9	92.9	95.5	95.5	95.5	96.1	96.1	96.8	96.8
≥ 200	17.4	72.9	82.6	87.7	92.9	92.9	95.5	95.5	95.5	96.1	96.1	96.8	96.8
≥ 100	17.4	72.9	82.6	87.7	92.9	92.9	95.5	95.5	95.5	96.1	96.8	98.1	98.1
0	17.4	72.9	82.6	87.7	92.9	92.9	95.5	95.5	95.5	96.1	96.8	98.1	98.1

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

AUG
MONTH07
HOURS (LST)PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING	4.5	10.3	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
≥ 20000	4.5	10.3	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
≥ 18000	4.5	10.3	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
≥ 16000	4.5	10.3	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
≥ 14000	5.2	11.0	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
≥ 12000	5.2	11.0	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
≥ 10000	5.8	11.6	12.9	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
≥ 9000	5.8	11.6	12.9	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
≥ 8000	5.8	11.6	12.9	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
≥ 7000	5.8	12.3	13.6	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
≥ 6000	5.8	12.3	13.6	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
≥ 5000	5.8	12.3	13.6	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
≥ 4500	5.8	12.3	13.6	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
≥ 4000	5.8	12.3	13.6	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
≥ 3500	5.8	12.3	13.6	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
≥ 3000	5.8	12.3	13.6	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
≥ 2500	7.7	14.8	16.1	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
≥ 2000	10.3	17.4	18.7	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
≥ 1800	11.0	18.7	20.0	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
≥ 1500	13.6	24.5	26.5	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
≥ 1200	17.4	31.0	33.6	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
≥ 1000	23.2	44.5	47.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
≥ 900	25.2	51.0	54.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 800	28.4	56.1	60.7	62.6	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 700	29.0	63.2	67.7	71.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 600	29.0	67.7	74.2	78.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 500	29.7	69.0	75.5	81.9	85.2	85.8	89.0	89.0	89.7	89.7	89.7
≥ 400	29.7	70.3	77.4	84.5	87.7	88.4	92.9	93.6	94.2	94.2	94.2
≥ 300	30.3	71.0	78.1	85.8	89.7	90.3	94.8	95.5	96.1	96.1	96.1
≥ 200	30.3	71.0	78.1	85.8	89.7	90.3	94.8	95.5	96.1	96.8	96.8
≥ 100	30.3	71.0	78.1	85.8	89.7	90.3	94.8	95.5	96.8	97.4	97.4
≥ 0	30.3	71.0	78.1	85.8	89.7	90.3	94.8	95.5	96.8	97.4	97.4

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

AUG
MONTH
10
HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	10.3	18.1	19.4	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
≥ 20000	10.3	19.1	19.4	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
≥ 18000	10.3	18.1	19.4	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
≥ 16000	10.3	18.1	19.4	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
≥ 14000	11.0	18.7	20.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
≥ 12000	11.0	18.7	20.0	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
≥ 10000	11.0	18.7	20.7	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9
≥ 9000	11.0	18.7	20.7	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9
≥ 8000	11.0	18.7	20.7	21.9	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6
≥ 7000	11.0	18.7	20.7	21.9	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6
≥ 6000	11.0	18.7	20.7	21.9	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6
≥ 5000	11.0	18.7	20.7	21.9	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6
≥ 4500	11.0	18.7	20.7	21.9	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6
≥ 4000	11.0	18.7	20.7	21.9	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6
≥ 3500	11.0	18.7	20.7	21.9	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6
≥ 3000	12.9	20.7	22.6	23.9	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
≥ 2500	14.8	23.2	25.2	26.5	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
≥ 2000	15.5	24.5	26.5	27.7	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4
≥ 1800	16.8	27.1	29.0	30.3	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
≥ 1500	21.9	37.4	39.4	40.7	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 1200	28.4	46.5	49.0	51.0	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 1000	30.3	56.1	61.3	63.2	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 900	32.3	62.6	68.4	70.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 800	32.9	67.7	74.8	76.8	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 700	33.6	73.6	81.3	85.8	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 600	34.2	75.5	83.2	89.0	92.9	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 500	34.2	76.1	83.9	89.7	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 400	34.2	76.1	83.9	89.7	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 300	34.2	76.1	83.9	89.7	94.8	96.1	96.8	98.1	98.1	98.1	98.1	98.1	98.1
≥ 200	34.2	76.1	83.9	89.7	94.8	96.1	96.8	98.1	98.7	98.7	99.4	99.4	99.4
≥ 100	34.2	76.1	83.9	89.7	94.8	96.1	96.8	98.1	98.7	98.7	99.4	99.4	99.4
≥ 0	34.2	76.1	83.9	89.7	94.8	96.1	96.8	98.1	98.7	98.7	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

AUG
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)13
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	24.5	39.4	41.9	41.9	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 20000	25.2	40.7	43.2	43.2	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
≥ 18000	25.2	40.7	43.2	43.2	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
≥ 16000	25.2	40.7	43.2	43.2	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
≥ 14000	25.8	41.3	43.9	43.9	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
≥ 12000	25.8	41.9	44.5	44.5	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
≥ 10000	25.8	41.9	45.2	45.2	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
≥ 9000	25.8	41.9	45.2	45.2	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
≥ 8000	25.8	42.6	45.8	45.8	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
≥ 7000	25.8	42.6	45.8	45.8	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
≥ 6000	25.8	42.6	45.8	45.8	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
≥ 5000	25.8	42.6	45.8	45.8	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
≥ 4500	25.8	42.6	45.8	45.8	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
≥ 4000	25.8	42.6	45.8	45.8	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
≥ 3500	25.8	42.6	45.8	45.8	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
≥ 3000	26.5	43.2	46.5	46.5	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 2500	27.7	44.5	47.7	47.7	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥ 2000	29.0	45.8	49.0	49.0	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
≥ 1800	31.6	48.4	51.6	51.6	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 1500	34.2	52.9	57.4	57.4	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 1200	36.1	57.4	62.6	62.6	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 1000	38.7	67.7	73.6	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 900	40.0	72.3	78.1	78.1	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 800	41.3	76.1	84.5	85.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 700	41.3	76.1	87.1	89.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 600	41.3	79.7	89.0	92.3	95.5	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 500	41.9	80.7	91.0	94.2	97.4	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400	41.9	80.7	91.0	94.2	97.4	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300	41.9	80.7	91.0	94.2	98.1	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	41.9	80.7	91.0	94.2	98.1	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	41.9	80.7	91.0	94.2	98.1	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	41.9	80.7	91.0	94.2	98.1	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

155

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

AUG
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING	26.5	43.2	45.2	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
≥ 20000	27.1	45.2	47.1	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥ 18000	27.1	45.2	47.1	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥ 16000	27.1	45.2	47.1	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥ 14000	27.7	45.8	47.7	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 12000	27.7	45.8	47.7	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 10000	27.7	47.1	49.0	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 9000	27.7	47.1	49.0	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 8000	27.7	47.1	49.0	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 7000	27.7	47.1	49.0	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 6000	27.7	47.1	49.0	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 5000	27.7	47.1	49.0	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 4500	27.7	47.1	49.0	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 4000	27.7	47.1	49.0	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 3500	27.7	47.1	49.0	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 3000	27.7	47.1	49.7	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 2500	27.7	47.1	49.7	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 2000	28.4	47.7	50.3	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 1800	30.3	49.7	52.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 1500	34.2	54.8	58.1	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 1200	38.1	60.7	64.5	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 1000	40.0	68.4	72.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 900	40.7	71.6	76.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 800	41.9	75.5	82.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 700	42.6	76.7	86.5	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 600	43.2	81.9	91.0	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 500	43.2	82.6	91.6	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 400	43.2	83.2	92.3	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 300	43.2	83.9	92.9	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200	43.2	83.9	92.9	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 100	43.2	83.9	92.9	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0	43.2	83.9	92.9	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEAR

AUG
MONTH19
HOURS (LST)PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING	16.1	27.1	29.0	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
≥ 20000	16.8	27.7	29.7	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
≥ 18000	16.8	27.7	29.7	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
≥ 16000	16.8	27.7	29.7	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
≥ 14000	16.8	27.7	29.7	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
≥ 12000	17.4	29.0	31.0	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 10000	17.4	29.0	31.0	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 9000	17.4	29.0	31.0	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 8000	17.4	29.7	31.6	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
≥ 7000	17.4	29.7	31.6	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
≥ 6000	17.4	29.7	31.6	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
≥ 5000	17.4	29.7	31.6	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
≥ 4500	17.4	29.7	31.6	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
≥ 4000	17.4	29.7	31.6	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
≥ 3500	17.4	29.7	31.6	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
≥ 3000	18.1	30.3	32.3	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6
≥ 2500	18.1	31.6	33.6	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
≥ 2000	20.0	33.6	35.5	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8
≥ 1800	20.0	34.2	36.1	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
≥ 1500	23.9	39.4	41.3	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 1200	27.7	43.9	45.8	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 1000	31.6	56.8	59.4	60.7	60.7	60.7	61.3	61.3	61.3	61.3	61.3
≥ 900	32.9	61.9	65.8	67.1	67.1	67.1	67.7	67.7	67.7	67.7	67.7
≥ 800	37.4	69.0	73.6	76.1	76.1	76.1	76.8	76.8	76.8	76.8	76.8
≥ 700	40.0	77.4	82.0	87.1	88.4	88.4	89.0	89.0	89.0	89.0	89.0
≥ 600	40.0	78.7	84.5	91.0	92.3	92.3	92.9	92.9	92.9	92.9	92.9
≥ 500	40.0	80.7	87.1	94.2	96.1	96.1	98.1	98.1	98.1	98.1	98.1
≥ 400	40.0	81.3	87.7	94.8	96.8	96.8	98.7	98.7	98.7	98.7	98.7
≥ 300	40.0	81.3	87.7	94.8	96.8	96.8	98.7	98.7	98.7	98.7	98.7
≥ 200	40.0	81.3	87.7	94.8	96.8	96.8	98.7	98.7	98.7	98.7	98.7
≥ 100	40.0	81.3	87.7	94.8	96.8	96.8	98.7	98.7	98.7	98.7	98.7
0	40.0	81.3	87.7	94.8	96.8	96.8	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

STATION
93117

STATION NAME
SAN CLEMENTE, CALIFORNIA

73-77

YEARS

MONTH
AUG

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)
22

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ 5/16
NO CEILING	9.0	30.3	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 20000	9.0	30.3	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 18000	9.0	30.3	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 16000	9.0	30.3	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 14000	9.0	30.3	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 12000	9.0	30.3	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 10000	9.0	30.3	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 9000	9.0	30.3	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 8000	9.0	30.3	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 7000	9.0	30.3	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 6000	9.0	30.3	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 5000	9.0	30.3	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 4500	9.0	30.3	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 4000	9.0	30.3	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 3500	9.0	30.3	31.6	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
≥ 3000	9.7	31.0	32.3	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9
≥ 2500	9.7	32.3	33.6	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2
≥ 2000	11.0	33.6	34.8	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
≥ 1800	11.0	33.6	34.8	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
≥ 1500	13.6	37.4	38.7	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
≥ 1200	16.8	41.9	43.2	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
≥ 1000	17.4	54.2	55.5	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 900	17.4	56.1	58.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 800	20.0	63.2	65.8	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 700	20.7	72.3	76.1	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 600	20.7	74.8	78.7	82.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 500	20.7	77.4	82.6	88.4	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 400	20.7	78.1	83.2	91.0	94.8	96.8	96.8	96.1	96.1	96.1	96.1
≥ 300	20.7	79.4	84.5	92.3	96.8	96.8	97.4	98.1	98.1	98.1	98.1
≥ 200	20.7	79.4	84.5	92.3	96.8	96.8	97.4	98.1	98.7	98.7	98.7
≥ 100	20.7	79.4	84.5	92.3	96.8	96.8	97.4	98.1	98.7	99.4	100.0
0	20.7	79.4	84.5	92.3	96.8	96.8	97.4	98.1	98.7	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

AUG
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)ALL
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	13.6	26.5	28.2	28.8	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9
≥ 20000	13.8	27.2	28.8	29.4	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
≥ 18000	13.8	27.2	28.8	29.4	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
≥ 16000	13.8	27.2	28.8	29.4	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
≥ 14000	14.1	27.5	29.1	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8
≥ 12000	14.2	27.7	29.4	30.0	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1
≥ 10000	14.3	28.0	29.8	30.5	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
≥ 9000	14.3	28.0	29.8	30.5	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.6
≥ 8000	14.3	28.2	29.9	30.7	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.8
≥ 7000	14.3	28.2	30.0	30.7	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
≥ 6000	14.3	28.2	30.0	30.7	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
≥ 5000	14.3	28.2	30.0	30.7	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
≥ 4500	14.3	28.2	30.0	30.7	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
≥ 4000	14.3	28.3	30.1	30.8	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
≥ 3500	14.8	28.9	30.7	31.5	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6
≥ 3000	15.7	30.4	32.3	33.0	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2
≥ 2500	16.9	31.8	33.6	34.4	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5
≥ 1800	17.9	33.1	35.0	35.7	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
≥ 1500	20.9	38.3	40.5	41.4	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
≥ 1200	24.1	44.0	46.5	47.5	47.7	47.8	47.9	47.9	47.9	47.9	47.9	47.9	47.9
≥ 1000	26.5	55.2	58.5	59.4	59.7	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
≥ 900	27.6	59.4	63.3	64.4	64.8	64.8	64.9	64.9	64.9	64.9	64.9	64.9	64.9
≥ 800	29.8	65.3	70.4	71.9	72.5	72.6	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 700	30.5	71.3	77.1	80.0	81.1	81.3	81.4	81.5	81.5	81.5	81.5	81.5	81.5
≥ 600	30.7	74.6	81.3	85.6	87.0	87.3	87.4	87.5	87.5	87.5	87.5	87.5	87.5
≥ 500	30.9	76.6	83.8	89.2	91.3	91.6	92.0	92.8	93.0	93.0	93.0	93.0	93.0
≥ 400	30.9	77.3	84.7	90.7	94.0	94.4	95.7	96.1	96.3	96.3	96.3	96.3	96.3
≥ 300	31.0	77.8	85.4	91.7	95.3	95.7	97.2	97.6	97.6	97.8	97.8	98.1	98.1
≥ 200	31.0	77.8	85.4	91.7	95.4	95.7	97.3	97.7	97.7	98.2	98.3	98.6	98.7
≥ 100	31.0	77.8	85.4	91.7	95.4	95.7	97.3	97.7	97.7	98.2	98.6	99.1	99.2
0	31.0	77.8	85.4	91.7	95.4	95.7	97.3	97.7	97.7	98.2	98.6	99.1	99.2

TOTAL NUMBER OF OBSERVATIONS

1240

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

SEP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING	8.7	32.0	34.0	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
≥ 20000	8.7	32.7	34.7	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
≥ 18000	8.7	32.7	34.7	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
≥ 16000	8.7	32.7	34.7	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
≥ 14000	8.7	32.7	34.7	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
≥ 12000	8.7	32.7	34.7	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
≥ 10000	8.7	33.3	35.3	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
≥ 9000	8.7	33.3	35.3	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
≥ 8000	8.7	34.0	36.7	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
≥ 7000	8.7	34.0	36.7	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
≥ 6000	8.7	34.0	36.7	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
≥ 5000	8.7	34.0	36.7	37.3	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
≥ 4500	8.7	34.0	36.7	37.3	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
≥ 4000	8.7	34.0	36.7	37.3	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
≥ 3500	8.7	35.3	36.0	38.7	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
≥ 3000	9.3	36.7	39.3	40.0	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
≥ 2500	9.3	39.3	42.0	42.7	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 2000	10.0	40.0	42.7	43.3	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
≥ 1800	11.3	41.3	44.0	44.7	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 1500	12.7	48.7	52.0	52.7	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
≥ 1200	14.7	54.0	58.0	58.7	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥ 1000	16.7	60.7	64.7	65.3	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 900	18.7	64.7	69.3	70.0	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 800	19.3	70.0	76.7	78.0	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 700	20.0	72.0	80.0	81.3	82.7	82.7	83.3	83.3	83.3	83.3	83.3	83.3
≥ 600	20.0	72.0	82.0	84.7	86.0	86.0	86.7	86.7	86.7	86.7	86.7	86.7
≥ 500	20.0	74.7	85.3	88.7	91.3	91.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 400	20.0	74.7	86.0	89.3	92.7	92.7	95.3	95.3	95.3	95.3	95.3	95.3
≥ 300	20.0	74.7	86.0	90.0	94.0	94.7	97.3	97.3	97.3	97.3	97.3	97.3
≥ 200	20.0	74.7	86.0	90.0	94.7	95.3	98.0	98.7	98.7	98.7	98.7	98.7
≥ 100	20.0	74.7	86.0	90.0	94.7	95.3	98.0	98.7	98.7	98.7	98.7	98.7
≥ 0	20.0	74.7	86.0	90.0	94.7	95.3	98.0	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

150

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

SEP
MONTH04
HOURS (LST)PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	6.0	26.7	28.0	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7
≥ 20000	6.7	28.0	29.3	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
≥ 18000	6.7	28.0	29.3	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
≥ 16000	6.7	28.0	29.3	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
≥ 14000	6.7	28.0	29.3	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
≥ 12000	6.7	28.0	29.3	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
≥ 10000	6.7	28.0	29.3	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
≥ 9000	6.7	28.0	29.3	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
≥ 8000	6.7	28.7	30.0	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7
≥ 7000	6.7	28.7	30.7	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
≥ 6000	6.7	28.7	30.7	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
≥ 5000	6.7	28.7	30.7	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
≥ 4500	6.7	28.7	30.7	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
≥ 4000	6.7	29.3	31.3	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
≥ 3500	7.3	32.0	34.0	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
≥ 3000	7.3	32.0	34.0	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
≥ 2500	7.3	35.3	37.3	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
≥ 2000	8.7	36.7	38.7	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
≥ 1800	8.7	36.7	38.7	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
≥ 1500	10.0	44.0	46.0	46.7	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 1200	12.7	48.7	51.3	52.0	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥ 1000	14.7	56.0	59.3	60.0	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 900	16.7	60.0	64.0	64.7	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 800	17.3	66.7	72.0	72.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 700	17.3	68.0	74.7	75.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 600	17.3	69.3	77.3	79.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 500	17.3	72.0	82.7	86.0	90.7	90.7	90.7	90.7	90.7	91.3	91.3	91.3	91.3	91.3
≥ 400	17.3	72.0	82.7	87.3	94.0	94.7	94.7	94.7	94.7	95.3	95.3	95.3	95.3	95.3
≥ 300	17.3	72.0	83.3	88.0	94.7	95.3	96.0	96.0	96.0	96.7	96.7	96.7	96.7	96.7
≥ 200	17.3	72.0	83.3	88.0	95.3	96.0	96.7	97.3	97.3	98.0	98.0	98.0	98.0	98.0
≥ 100	17.3	72.0	83.3	88.0	95.3	96.0	96.7	97.3	97.3	98.0	98.0	98.0	98.0	98.0
0	17.3	72.0	83.3	88.0	95.3	96.0	96.7	97.3	97.3	98.0	98.0	98.0	98.0	98.0

TOTAL NUMBER OF OBSERVATIONS

150

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

SEP
MONTH

07

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	10.7	16.7	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
≥ 20000	11.3	19.3	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
≥ 18000	11.3	19.3	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
≥ 16000	11.3	19.3	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
≥ 14000	11.3	19.3	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
≥ 12000	11.3	19.3	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
≥ 10000	11.3	20.0	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
≥ 9000	11.3	20.7	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
≥ 8000	11.3	21.3	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
≥ 7000	11.3	21.3	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
≥ 6000	11.3	21.3	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
≥ 5000	11.3	21.3	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
≥ 4500	11.3	21.3	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
≥ 4000	11.3	22.0	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7
≥ 3500	12.0	22.7	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
≥ 3000	12.7	24.0	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
≥ 2500	13.3	27.3	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
≥ 2000	15.3	30.7	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
≥ 1800	17.3	32.7	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
≥ 1500	20.7	40.7	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
≥ 1200	24.0	48.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 1000	26.7	54.7	56.7	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 900	28.0	59.3	64.0	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 800	30.0	66.0	72.7	74.0	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 700	30.0	68.0	75.3	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 600	30.0	70.0	79.3	81.3	82.7	82.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 500	30.7	70.7	82.0	85.3	87.3	88.0	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 400	31.3	72.7	85.3	88.7	91.3	92.0	93.3	94.0	94.7	94.7	94.7	94.7	94.7
≥ 300	31.3	72.7	85.3	88.7	92.0	92.7	94.7	96.7	98.0	98.0	98.0	98.0	98.0
≥ 200	31.3	72.7	85.3	88.7	92.0	92.7	94.7	97.3	98.7	98.7	98.7	98.7	98.7
≥ 100	31.3	72.7	85.3	88.7	92.0	92.7	94.7	97.3	98.7	98.7	98.7	98.7	98.7
≥ 0	31.3	72.7	85.3	88.7	92.0	92.7	94.7	97.3	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

SEP
MONTH

10

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	14.7	23.3	24.7	25.3	26.0	26.0	26.0	26.7	26.7	26.7	26.7	26.7	26.7	26.7
≥ 20000	16.0	25.3	26.7	27.3	28.0	28.0	28.0	28.7	28.7	28.7	28.7	28.7	28.7	28.7
≥ 18000	16.0	25.3	26.7	27.3	28.0	28.0	28.0	28.7	28.7	28.7	28.7	28.7	28.7	28.7
≥ 16000	16.0	25.3	26.7	27.3	28.0	28.0	28.0	28.7	28.7	28.7	28.7	28.7	28.7	28.7
≥ 14000	16.7	26.0	27.3	28.0	28.7	28.7	28.7	29.3	29.3	29.3	29.3	29.3	29.3	29.3
≥ 12000	16.7	26.0	27.3	28.0	28.7	28.7	28.7	29.3	29.3	29.3	29.3	29.3	29.3	29.3
≥ 10000	16.7	26.7	28.0	28.7	29.3	29.3	29.3	30.0	30.0	30.0	30.0	30.0	30.0	30.0
≥ 9000	16.7	26.7	28.0	28.7	29.3	29.3	29.3	30.0	30.0	30.0	30.0	30.0	30.0	30.0
≥ 8000	16.7	28.0	29.3	30.0	30.7	30.7	30.7	31.3	31.3	31.3	31.3	31.3	31.3	31.3
≥ 7000	16.7	28.0	29.3	30.0	30.7	30.7	30.7	31.3	31.3	31.3	31.3	31.3	31.3	31.3
≥ 6000	16.7	28.0	29.3	30.0	30.7	30.7	30.7	31.3	31.3	31.3	31.3	31.3	31.3	31.3
≥ 5000	16.7	28.0	29.3	30.0	30.7	30.7	30.7	31.3	31.3	31.3	31.3	31.3	31.3	31.3
≥ 4500	16.7	28.0	29.3	30.0	30.7	30.7	30.7	31.3	31.3	31.3	31.3	31.3	31.3	31.3
≥ 4000	17.3	30.0	31.3	32.0	32.7	32.7	32.7	33.3	33.3	33.3	33.3	33.3	33.3	33.3
≥ 3500	17.3	30.0	31.3	32.0	32.7	32.7	32.7	33.3	33.3	33.3	33.3	33.3	33.3	33.3
≥ 3000	18.7	31.3	32.7	33.3	34.0	34.0	34.0	34.7	34.7	34.7	34.7	34.7	34.7	34.7
≥ 2500	22.0	36.7	38.0	38.7	39.3	39.3	39.3	40.0	40.0	40.0	40.0	40.0	40.0	40.0
≥ 2000	24.7	41.3	42.7	43.3	44.0	44.0	44.0	44.7	44.7	44.7	44.7	44.7	44.7	44.7
≥ 1800	25.3	42.0	43.3	44.0	44.7	44.7	44.7	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 1500	31.3	54.0	55.3	56.7	57.3	57.3	57.3	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 1200	32.7	58.7	62.0	63.3	64.7	64.7	64.7	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 1000	36.0	64.0	68.0	69.3	70.7	70.7	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 900	37.3	66.0	70.7	72.7	74.0	74.0	74.0	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 800	40.0	74.0	79.3	81.3	83.3	83.3	83.3	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 700	40.0	76.7	84.7	87.3	90.0	90.0	90.0	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 600	40.0	78.7	87.3	91.3	94.7	94.7	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 500	40.0	78.7	87.3	91.3	94.7	95.3	95.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 400	40.0	78.7	88.0	92.0	96.0	97.3	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300	40.0	78.7	88.0	92.0	96.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200	40.0	78.7	88.0	92.0	96.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 100	40.0	78.7	88.0	92.0	96.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0	40.0	78.7	88.0	92.0	96.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION
93117

STATION NAME
SAN CLEMENTE, CALIFORNIA

73-77

YEARS

SEP

MONTH

13

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	22.7	36.7	39.3	39.3	40.7	40.7	40.7	41.3	41.3	41.3	41.3	41.3	41.3
≥ 20000	24.0	38.7	41.3	41.3	42.7	42.7	42.7	43.3	43.3	43.3	43.3	43.3	43.3
≥ 18000	24.0	38.7	41.3	41.3	42.7	42.7	42.7	43.3	43.3	43.3	43.3	43.3	43.3
≥ 16000	24.0	38.7	41.3	41.3	42.7	42.7	42.7	43.3	43.3	43.3	43.3	43.3	43.3
≥ 14000	24.0	38.7	41.3	41.3	42.7	42.7	42.7	43.3	43.3	43.3	43.3	43.3	43.3
≥ 12000	24.0	38.7	41.3	41.3	42.7	42.7	42.7	43.3	43.3	43.3	43.3	43.3	43.3
≥ 10000	24.0	39.3	42.7	42.7	44.0	44.0	44.0	44.7	44.7	44.7	44.7	44.7	44.7
≥ 8000	24.0	39.3	42.7	42.7	44.0	44.0	44.0	44.7	44.7	44.7	44.7	44.7	44.7
≥ 6000	24.0	39.3	42.7	42.7	44.0	44.0	44.0	44.7	44.7	44.7	44.7	44.7	44.7
≥ 5000	24.0	39.3	42.7	42.7	44.0	44.0	44.0	44.7	44.7	44.7	44.7	44.7	44.7
≥ 4500	24.0	39.3	42.7	42.7	44.0	44.0	44.0	44.7	44.7	44.7	44.7	44.7	44.7
≥ 4000	24.0	40.7	44.0	44.0	45.3	45.3	45.3	46.0	46.0	46.0	46.0	46.0	46.0
≥ 3500	25.3	42.7	46.0	46.0	47.3	47.3	47.3	48.0	48.0	48.0	48.0	48.0	48.0
≥ 3000	25.0	44.0	47.3	47.3	48.7	48.7	48.7	49.3	49.3	49.3	49.3	49.3	49.3
≥ 2500	27.3	46.0	49.3	49.3	50.7	50.7	50.7	51.3	51.3	51.3	51.3	51.3	51.3
≥ 2000	30.7	50.0	53.3	53.3	54.7	54.7	54.7	55.3	55.3	55.3	55.3	55.3	55.3
≥ 1800	31.3	52.0	56.0	56.0	57.3	57.3	57.3	58.0	58.0	58.0	58.0	58.0	58.0
≥ 1500	36.7	60.7	64.7	64.7	67.3	67.3	67.3	68.0	68.0	68.0	68.0	68.0	68.0
≥ 1200	38.7	67.3	72.0	72.0	74.7	74.7	74.7	75.3	75.3	75.3	75.3	75.3	75.3
≥ 1000	40.7	71.3	76.7	76.7	80.0	80.0	80.0	80.7	80.7	80.7	80.7	80.7	80.7
≥ 900	40.7	72.7	78.7	78.7	82.0	82.0	82.0	82.7	82.7	82.7	82.7	82.7	82.7
≥ 800	42.7	78.7	88.0	88.0	92.0	92.0	92.0	92.7	92.7	92.7	92.7	92.7	92.7
≥ 700	43.3	82.0	92.0	92.0	97.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0
≥ 600	43.3	82.0	92.0	92.0	97.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0
≥ 500	43.3	82.0	92.0	92.0	98.0	98.0	98.0	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400	43.3	82.0	92.0	92.0	98.0	98.0	98.0	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300	43.3	82.0	92.0	92.0	98.0	98.0	98.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	43.3	82.0	92.0	92.0	98.0	98.0	98.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	43.3	82.0	92.0	92.0	98.0	98.0	98.0	100.0	100.0	100.0	100.0	100.0	100.0
0	43.3	82.0	92.0	92.0	98.0	98.0	98.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

SEP
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

16

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	26.7	42.0	44.7	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 20000	28.0	44.0	46.7	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 18000	28.0	44.0	46.7	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 16000	28.0	44.0	46.7	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 14000	28.0	44.0	46.7	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 12000	28.0	44.0	46.7	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 10000	28.0	44.0	46.7	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 9000	28.0	44.0	46.7	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 8000	28.0	45.3	48.0	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 7000	28.0	45.3	48.0	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 6000	28.0	45.3	48.0	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 5000	28.0	45.3	48.0	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 4500	28.0	45.3	48.0	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 4000	28.0	45.3	48.0	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 3500	28.7	46.7	49.3	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
≥ 3000	29.3	47.3	50.0	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
≥ 2500	30.0	49.3	52.0	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥ 2000	32.7	52.0	54.7	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 1800	32.7	53.3	56.7	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 1500	36.7	59.3	63.3	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 1200	39.3	65.3	70.0	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 1000	40.7	70.7	75.3	76.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 900	40.7	73.3	78.0	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 800	43.3	77.3	82.7	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 700	44.0	79.3	86.0	88.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 600	44.7	80.7	87.3	90.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 500	44.7	82.0	89.3	92.7	96.0	96.0	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 400	44.7	82.7	90.7	94.7	98.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300	44.7	82.7	90.7	94.7	98.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200	44.7	82.7	90.7	94.7	98.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 100	44.7	82.7	90.7	94.7	98.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0	44.7	82.7	90.7	94.7	98.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

SEP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

19
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														≥ 0
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	
NO CEILING	14.7	33.3	36.0	37.3	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
≥ 20000	14.7	34.0	36.7	38.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 18000	14.7	34.0	36.7	38.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 16000	14.7	34.0	36.7	38.0	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 14000	15.3	34.7	37.3	38.7	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
≥ 12000	15.3	34.7	37.3	38.7	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
≥ 10000	16.0	35.0	38.7	40.0	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
≥ 9000	16.0	36.0	38.7	40.0	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
≥ 8000	16.0	37.3	40.0	41.3	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
≥ 7000	16.0	37.3	40.0	41.3	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
≥ 6000	16.0	37.3	40.0	41.3	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
≥ 5000	16.0	37.3	40.0	41.3	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
≥ 4500	16.0	37.3	40.0	41.3	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
≥ 4000	16.0	38.0	40.7	42.0	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 3500	16.0	38.7	41.3	42.7	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 3000	16.0	38.7	41.3	42.7	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 2500	16.0	38.7	41.3	42.7	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 2000	18.0	42.0	44.7	46.0	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
≥ 1800	18.0	42.7	45.3	46.7	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 1500	24.0	52.0	55.3	56.7	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 1200	26.7	56.0	60.0	61.3	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
≥ 1000	30.0	62.7	66.7	68.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 900	30.0	63.3	68.7	70.7	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 800	31.3	68.7	75.3	77.3	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 700	31.3	70.7	80.7	84.0	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 600	32.0	74.0	84.0	87.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 500	32.7	75.3	86.7	90.7	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 400	32.7	75.3	87.3	91.3	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 300	32.7	75.3	87.3	91.3	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 200	32.7	75.3	87.3	91.3	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 100	32.7	75.3	87.3	91.3	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 0	32.7	75.3	87.3	91.3	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3

TOTAL NUMBER OF OBSERVATIONS

150

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

SEP
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)22
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	11.3	36.7	40.0	40.7	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
≥ 20000	11.3	37.3	40.7	41.3	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
≥ 18000	11.3	37.3	40.7	41.3	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
≥ 16000	11.3	37.3	40.7	41.3	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
≥ 14000	11.3	37.3	40.7	41.3	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
≥ 12000	11.3	37.3	40.7	41.3	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
≥ 10000	12.0	38.7	42.0	42.7	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 9000	12.0	38.7	42.0	42.7	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 8000	12.0	40.0	43.3	44.0	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
≥ 7000	12.0	40.0	43.3	44.0	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
≥ 6000	12.0	40.0	43.3	44.0	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
≥ 5000	12.0	40.0	43.3	44.0	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
≥ 4500	12.0	40.0	43.3	44.0	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
≥ 4000	12.7	41.3	44.7	45.3	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
≥ 3500	12.7	42.7	46.0	46.7	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 3000	12.7	43.3	46.7	47.3	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
≥ 2500	12.7	44.0	47.3	48.0	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 2000	16.7	50.0	53.3	54.0	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 1800	17.3	50.7	54.0	54.7	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 1500	18.0	54.0	58.0	58.7	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥ 1200	22.0	61.3	66.0	66.7	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 1000	24.7	68.7	73.3	74.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 900	24.7	69.3	74.7	76.0	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 800	25.0	75.3	82.0	84.7	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 700	25.0	76.0	83.3	86.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 600	26.0	77.3	85.3	86.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 500	26.0	78.7	88.0	91.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 400	26.0	78.7	88.7	92.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 300	26.0	78.7	88.7	92.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 200	26.0	78.7	88.7	92.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 100	26.0	78.7	88.7	92.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 0	26.0	78.7	88.7	92.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0

TOTAL NUMBER OF OBSERVATIONS

150

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77
YEARS

SEP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING	14.4	31.2	33.3	33.8	34.3	34.3	34.3	34.4	34.4	34.4	34.4	34.4
≥ 20000	15.1	32.4	34.5	35.1	35.5	35.5	35.5	35.7	35.7	35.7	35.7	35.7
≥ 18000	15.1	32.4	34.5	35.1	35.5	35.5	35.5	35.7	35.7	35.7	35.7	35.7
≥ 16000	15.1	32.4	34.5	35.1	35.5	35.5	35.5	35.7	35.7	35.7	35.7	35.7
≥ 14000	15.3	32.6	34.7	35.3	35.7	35.7	35.7	35.8	35.8	35.8	35.8	35.8
≥ 12000	15.3	32.6	34.7	35.3	35.7	35.7	35.7	35.8	35.8	35.8	35.8	35.8
≥ 10000	15.4	33.3	35.5	36.0	36.4	36.4	36.4	36.6	36.6	36.6	36.6	36.6
≥ 9000	15.4	33.3	35.5	36.1	36.5	36.5	36.5	36.7	36.7	36.7	36.7	36.7
≥ 8000	15.4	34.3	36.5	37.1	37.5	37.5	37.5	37.7	37.7	37.7	37.7	37.7
≥ 7000	15.4	34.3	36.6	37.2	37.6	37.6	37.6	37.8	37.8	37.8	37.8	37.8
≥ 6000	15.4	34.3	36.6	37.2	37.6	37.6	37.6	37.8	37.8	37.8	37.8	37.8
≥ 5000	15.4	34.3	36.6	37.2	37.6	37.6	37.6	37.8	37.8	37.8	37.8	37.8
≥ 4500	15.4	34.3	36.6	37.2	37.6	37.6	37.6	37.8	37.8	37.8	37.8	37.8
≥ 4000	15.6	35.1	37.4	38.0	38.5	38.5	38.5	38.7	38.7	38.7	38.7	38.7
≥ 3500	16.0	36.3	38.7	39.3	39.8	39.8	39.8	39.9	39.9	39.9	39.9	39.9
≥ 3000	16.5	37.2	39.5	40.1	40.6	40.6	40.6	40.8	40.8	40.8	40.8	40.8
≥ 2500	17.3	39.6	41.9	42.5	43.0	43.0	43.0	43.2	43.2	43.2	43.2	43.2
≥ 2000	19.6	42.8	45.2	45.8	46.3	46.3	46.3	46.4	46.4	46.4	46.4	46.4
≥ 1800	20.3	43.9	46.4	47.1	47.6	47.6	47.6	47.8	47.8	47.8	47.8	47.8
≥ 1500	23.8	51.7	54.0	55.4	56.0	56.0	56.0	56.2	56.2	56.2	56.2	56.2
≥ 1200	26.3	57.4	61.2	62.0	62.8	62.8	62.8	62.9	62.9	62.9	62.9	62.9
≥ 1000	28.8	63.6	67.6	68.8	69.6	69.6	69.6	69.8	69.8	69.8	69.8	69.8
≥ 900	29.6	66.1	71.0	72.4	73.3	73.3	73.3	73.5	73.5	73.5	73.5	73.5
≥ 800	31.3	72.1	78.0	80.3	81.7	81.7	81.7	81.8	81.8	81.8	81.8	81.8
≥ 700	31.5	74.1	82.1	84.3	86.1	86.1	86.1	86.3	86.3	86.3	86.3	86.3
≥ 600	31.7	75.6	84.3	87.2	89.4	89.4	89.4	89.8	89.8	89.8	89.8	89.8
≥ 500	31.8	76.8	86.7	90.0	93.3	93.3	93.3	94.5	94.5	94.6	94.6	94.6
≥ 400	31.9	77.1	87.6	91.2	95.3	95.3	95.3	97.1	97.1	97.3	97.3	97.3
≥ 300	31.9	77.1	87.7	91.3	95.7	96.3	96.3	98.1	98.1	98.4	98.4	98.4
≥ 200	31.9	77.1	87.7	91.3	95.8	96.5	96.5	98.8	98.8	99.2	99.2	99.2
≥ 100	31.9	77.1	87.7	91.3	95.8	96.5	96.5	98.8	98.8	99.2	99.2	99.2
≥ 0	31.9	77.1	87.7	91.3	95.8	96.5	96.5	98.8	98.8	99.2	99.2	99.2

TOTAL NUMBER OF OBSERVATIONS

1200

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

OCT
MONTH01
HOURS (L.S.T.)PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING	25.8	46.5	49.0	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	51.6	52.3
≥ 20000	26.5	47.7	50.3	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	52.9	53.6
≥ 18000	26.5	47.7	50.3	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	52.9	53.6
≥ 16000	26.5	47.7	50.3	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	52.9	53.6
≥ 14000	26.5	47.7	50.3	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	52.9	53.6
≥ 12000	26.5	47.7	50.3	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	52.9	53.6
≥ 10000	26.5	47.7	50.3	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	52.9	53.6
≥ 9000	26.5	47.7	50.3	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	52.9	53.6
≥ 8000	26.5	48.4	51.0	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	53.6	54.2
≥ 7000	26.5	48.4	51.0	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	53.6	54.2
≥ 6000	26.5	48.4	51.0	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	53.6	54.2
≥ 5000	26.5	48.4	51.0	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	53.6	54.2
≥ 4500	26.5	48.4	51.0	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	53.6	54.2
≥ 4000	26.5	48.4	51.6	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	54.2	54.8
≥ 3500	26.5	48.4	51.6	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	54.2	54.8
≥ 3000	28.4	51.0	54.2	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	56.8	57.4
≥ 2500	29.7	53.6	56.8	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	59.4	60.0
≥ 2000	30.3	54.8	58.1	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	60.7	61.3
≥ 1800	30.3	55.5	58.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	61.3	61.9
≥ 1500	32.3	61.9	65.2	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	67.7	68.4
≥ 1200	33.6	66.5	71.6	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	74.2	74.8
≥ 1000	33.6	67.7	73.6	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	76.1	76.7
≥ 900	33.6	68.4	74.2	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	78.7	79.4
≥ 800	34.2	69.7	76.1	80.0	81.9	81.9	81.9	81.9	81.9	81.9	81.9	83.2	83.9
≥ 700	34.2	70.3	77.4	81.3	83.2	83.2	83.2	83.2	83.2	83.2	83.2	84.5	85.2
≥ 600	34.8	73.6	80.7	84.5	87.1	87.1	87.1	87.1	87.1	87.1	87.1	88.4	89.0
≥ 500	34.8	75.5	82.6	85.4	91.0	91.0	91.0	91.0	91.0	91.0	91.0	92.3	92.9
≥ 400	34.8	75.5	82.6	89.0	92.9	92.9	92.9	92.9	92.9	92.9	92.9	94.2	94.8
≥ 300	34.8	75.5	82.6	89.7	93.6	93.6	93.6	93.6	93.6	93.6	93.6	94.8	95.4
≥ 200	34.8	75.5	82.6	89.7	93.6	93.6	93.6	93.6	93.6	93.6	93.6	94.8	95.4
≥ 100	34.8	75.5	82.6	89.7	93.6	93.6	93.6	93.6	93.6	93.6	93.6	94.8	95.4
≥ 0	34.8	75.5	82.6	89.7	93.6	93.6	93.6	93.6	93.6	93.6	93.6	94.8	95.4

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

007
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING	27.1	44.5	45.0	46.5	46.5	46.5	46.5	46.5	46.5	47.7	47.7	47.7
≥ 20000	27.1	45.2	46.5	47.1	47.1	47.1	47.1	47.1	47.1	48.4	48.4	48.4
≥ 18000	27.1	45.2	46.5	47.1	47.1	47.1	47.1	47.1	47.1	48.4	48.4	48.4
≥ 16000	27.1	45.2	46.5	47.1	47.1	47.1	47.1	47.1	47.1	48.4	48.4	48.4
≥ 14000	27.1	45.2	46.5	47.1	47.1	47.1	47.1	47.1	47.1	48.4	48.4	48.4
≥ 12000	27.1	45.8	47.1	47.7	47.7	47.7	47.7	47.7	47.7	49.0	49.0	49.0
≥ 10000	27.7	46.5	47.7	48.4	48.4	48.4	48.4	48.4	48.4	49.7	49.7	49.7
≥ 9000	27.7	46.5	47.7	48.4	48.4	48.4	48.4	48.4	48.4	49.7	49.7	49.7
≥ 8000	27.7	48.4	49.7	50.3	50.3	50.3	50.3	50.3	50.3	51.6	51.6	51.6
≥ 7000	27.7	48.4	49.7	50.3	50.3	50.3	50.3	50.3	50.3	51.6	51.6	51.6
≥ 6000	27.7	48.4	49.7	50.3	50.3	50.3	50.3	50.3	50.3	51.6	51.6	51.6
≥ 5000	27.7	48.4	49.7	50.3	50.3	50.3	50.3	50.3	50.3	51.6	51.6	51.6
≥ 4500	27.7	48.4	49.7	50.3	50.3	50.3	50.3	50.3	50.3	51.6	51.6	51.6
≥ 4000	27.7	49.0	50.3	51.0	51.0	51.0	51.0	51.0	51.0	52.3	52.3	52.3
≥ 3500	27.7	49.0	50.3	51.0	51.0	51.0	51.0	51.0	51.0	52.3	52.3	52.3
≥ 3000	28.4	50.3	51.6	52.3	52.3	52.3	52.3	52.3	52.3	53.6	53.6	53.6
≥ 2500	28.4	51.6	52.9	53.6	53.6	53.6	53.6	53.6	53.6	54.8	54.8	54.8
≥ 2000	29.0	52.9	54.8	55.5	55.5	55.5	55.5	55.5	55.5	56.8	56.8	56.8
≥ 1800	29.0	54.2	56.1	56.8	56.8	56.8	56.8	56.8	56.8	58.1	58.1	58.1
≥ 1500	29.7	58.7	61.3	61.9	61.9	61.9	61.9	61.9	61.9	63.2	63.2	63.2
≥ 1200	32.3	63.9	68.4	69.7	69.7	69.7	69.7	69.7	69.7	71.0	71.0	71.0
≥ 1000	32.3	65.2	71.6	74.8	75.5	75.5	75.5	75.5	75.5	76.8	76.8	76.8
≥ 900	32.3	65.8	72.3	75.5	76.1	76.1	76.1	76.1	76.1	77.4	77.4	77.4
≥ 800	32.9	67.7	74.8	78.7	79.4	79.4	79.4	79.4	79.4	80.7	80.7	80.7
≥ 700	32.9	67.7	74.8	78.7	80.7	80.7	80.7	80.7	80.7	81.9	81.9	81.9
≥ 600	32.9	68.4	76.8	80.7	83.2	83.2	83.2	83.2	83.2	84.5	84.5	84.5
≥ 500	32.9	69.7	78.1	82.6	85.8	85.8	85.8	85.8	85.8	87.1	87.1	87.1
≥ 400	32.9	70.3	78.7	84.5	89.7	89.7	89.7	89.7	89.7	91.0	91.0	91.0
≥ 300	32.9	70.3	78.7	85.8	91.6	91.6	91.6	91.6	91.6	92.3	92.3	92.3
≥ 200	32.9	70.3	78.7	85.8	91.6	91.6	91.6	91.6	91.6	92.3	92.3	92.3
≥ 100	32.9	70.3	78.7	85.8	91.6	91.6	91.6	91.6	91.6	92.3	92.3	92.3
0	32.9	70.3	78.7	85.8	91.6	91.6	91.6	91.6	91.6	92.3	92.3	92.3

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

OCT

MONTH

07

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	26.5	36.1	36.8	38.1	38.7	38.7	39.4	39.4	39.4	40.7	40.7	40.7	40.7
≥ 20000	26.5	36.1	36.8	38.1	38.7	38.7	39.4	39.4	39.4	40.7	40.7	40.7	40.7
≥ 18000	26.5	36.1	36.8	38.1	38.7	38.7	39.4	39.4	39.4	40.7	40.7	40.7	40.7
≥ 16000	26.5	36.1	36.8	38.1	38.7	38.7	39.4	39.4	39.4	40.7	40.7	40.7	40.7
≥ 14000	26.5	36.8	37.4	38.7	39.4	39.4	40.0	40.0	40.0	41.3	41.3	41.3	41.3
≥ 12000	27.1	37.4	38.1	39.4	40.0	40.0	40.0	40.7	40.7	41.9	41.9	41.9	41.9
≥ 10000	28.4	38.7	39.4	40.7	41.3	41.3	41.9	41.9	41.9	43.2	43.2	43.2	43.2
≥ 9000	28.4	38.7	39.4	40.7	41.3	41.3	41.9	41.9	41.9	43.2	43.2	43.2	43.2
≥ 8000	29.7	40.7	41.3	42.6	43.2	43.2	43.9	43.9	43.9	45.2	45.2	45.2	45.2
≥ 7000	29.7	40.7	41.3	42.6	43.2	43.2	43.9	43.9	43.9	45.2	45.2	45.2	45.2
≥ 6000	29.7	40.7	41.3	42.6	43.2	43.2	43.9	43.9	43.9	45.2	45.2	45.2	45.2
≥ 5000	29.7	40.7	41.3	42.6	43.2	43.2	43.9	43.9	43.9	45.2	45.2	45.2	45.2
≥ 4500	30.3	41.3	41.9	43.2	43.9	43.9	44.5	44.5	44.5	45.8	45.8	45.8	45.8
≥ 4000	30.3	41.3	41.9	43.2	43.9	43.9	44.5	44.5	44.5	45.8	45.8	45.8	45.8
≥ 3500	30.3	41.3	41.9	43.2	43.9	43.9	44.5	44.5	44.5	45.8	45.8	45.8	45.8
≥ 3000	31.6	43.2	43.9	45.2	45.8	45.8	46.5	46.5	46.5	47.7	47.7	47.7	47.7
≥ 2500	31.6	45.2	45.8	47.1	47.7	47.7	48.4	48.4	48.4	49.7	49.7	49.7	49.7
≥ 2000	33.6	49.7	50.3	51.6	52.3	52.3	52.9	52.9	52.9	54.2	54.2	54.2	54.2
≥ 1800	34.2	51.0	52.3	53.6	54.2	54.2	54.8	54.8	54.8	56.1	56.1	56.1	56.1
≥ 1500	38.1	57.4	59.4	60.7	61.3	61.3	61.9	61.9	61.9	63.2	63.2	63.2	63.2
≥ 1200	39.4	61.9	63.2	66.5	67.1	67.1	67.7	67.7	67.7	69.0	69.0	69.0	69.0
≥ 1000	41.3	67.7	72.3	73.6	74.2	74.2	74.8	74.8	74.8	76.1	76.1	76.1	76.1
≥ 900	41.9	68.4	72.9	74.2	74.8	74.8	75.5	75.5	75.5	76.8	76.8	76.8	76.8
≥ 800	43.2	71.6	76.1	78.1	78.7	78.7	79.4	79.4	79.4	80.7	80.7	80.7	80.7
≥ 700	44.5	72.9	78.7	80.7	81.9	81.9	82.6	82.6	82.6	83.9	83.9	83.9	83.9
≥ 600	45.2	74.8	81.3	83.2	84.5	84.5	85.2	85.2	85.2	86.5	86.5	86.5	86.5
≥ 500	45.2	74.8	81.9	83.9	86.5	86.5	89.0	89.0	89.0	90.3	90.3	90.3	90.3
≥ 400	45.2	74.8	81.9	84.5	88.4	88.4	91.0	91.0	91.0	92.9	92.9	92.9	92.9
≥ 300	45.2	74.8	81.9	84.5	88.4	88.4	91.6	91.6	91.6	94.2	94.2	94.2	94.2
≥ 200	45.2	74.8	81.9	84.5	88.4	88.4	91.6	91.6	91.6	96.1	96.1	96.1	96.1
≥ 100	45.2	74.8	81.9	84.5	88.4	88.4	91.6	91.6	91.6	96.1	96.1	96.1	96.1
≥ 0	45.2	74.8	81.9	84.5	88.4	88.4	91.6	91.6	91.6	96.1	96.1	96.1	96.1

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117 STATION

SAN CLEMENTE, CALIFORNIA STATION NAME

73-77

YEARS

OCT MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	33.6	45.8	49.7	49.7	50.3	50.3	51.0	51.6	51.6	52.3	52.3	52.3	52.3
≥ 20000	33.6	46.5	50.3	50.3	51.0	51.0	51.6	52.3	52.3	52.9	52.9	52.9	52.9
≥ 18000	33.6	46.5	50.3	50.3	51.0	51.0	51.6	52.3	52.3	52.9	52.9	52.9	52.9
≥ 16000	33.6	46.5	50.3	50.3	51.0	51.0	51.6	52.3	52.3	52.9	52.9	52.9	52.9
≥ 14000	33.6	46.5	50.3	50.3	51.0	51.0	51.6	52.3	52.3	52.9	52.9	52.9	52.9
≥ 12000	34.2	47.1	51.0	51.0	51.6	51.6	52.3	52.9	52.9	53.6	53.6	53.6	53.6
≥ 10000	34.2	47.1	51.0	51.0	51.6	51.6	52.3	52.9	52.9	53.6	53.6	53.6	53.6
≥ 9000	34.2	47.1	51.0	51.0	51.6	51.6	52.3	52.9	52.9	53.6	53.6	53.6	53.6
≥ 8000	34.2	47.7	51.6	51.6	52.3	52.3	52.9	53.6	53.6	54.2	54.2	54.2	54.2
≥ 7000	34.2	47.7	51.6	51.6	52.3	52.3	52.9	53.6	53.6	54.2	54.2	54.2	54.2
≥ 6000	34.2	47.7	51.6	51.6	52.3	52.3	52.9	53.6	53.6	54.2	54.2	54.2	54.2
≥ 5000	34.2	47.7	51.6	51.6	52.3	52.3	52.9	53.6	53.6	54.2	54.2	54.2	54.2
≥ 4500	34.2	47.7	51.6	51.6	52.3	52.3	52.9	53.6	53.6	54.2	54.2	54.2	54.2
≥ 4000	34.2	47.7	51.6	51.6	52.3	52.3	52.9	53.6	53.6	54.2	54.2	54.2	54.2
≥ 3500	34.2	47.7	51.6	51.6	52.3	52.3	52.9	53.6	53.6	54.2	54.2	54.2	54.2
≥ 3000	34.8	49.0	52.9	52.9	53.6	53.6	54.2	54.8	54.8	55.5	55.5	55.5	55.5
≥ 2500	37.4	53.6	57.4	57.4	58.1	58.1	58.7	59.4	59.4	60.0	60.0	60.0	60.0
≥ 2000	40.0	59.4	63.2	63.2	63.9	63.9	64.5	65.2	65.2	65.8	65.8	65.8	65.8
≥ 1800	40.7	60.7	64.5	64.5	65.2	65.2	65.8	66.5	66.5	67.1	67.1	67.1	67.1
≥ 1500	44.5	64.5	69.7	70.3	71.6	71.6	72.3	72.9	72.9	73.6	73.6	73.6	73.6
≥ 1200	45.8	67.1	72.9	73.6	74.8	74.8	75.5	76.1	76.1	76.8	76.8	76.8	76.8
≥ 1000	48.4	71.6	78.1	78.7	80.0	80.0	80.7	81.3	81.3	81.9	81.9	81.9	81.9
≥ 900	48.4	72.9	79.4	80.0	81.3	81.3	81.9	82.6	82.6	83.2	83.2	83.2	83.2
≥ 800	48.4	72.9	80.7	81.9	83.9	83.9	84.5	85.2	85.2	85.8	85.8	85.8	85.8
≥ 700	49.0	73.6	82.6	83.9	85.8	85.8	87.1	87.7	87.7	88.4	88.4	88.4	88.4
≥ 600	49.0	74.8	83.9	85.2	87.1	87.1	87.7	89.0	90.3	91.0	91.0	91.0	91.0
≥ 500	49.0	74.8	83.9	85.2	89.0	89.7	92.3	94.8	94.8	95.5	95.5	95.5	95.5
≥ 400	49.7	75.5	84.5	87.1	91.0	91.6	94.8	98.1	98.1	98.7	98.7	98.7	98.7
≥ 300	49.7	75.5	84.5	87.1	91.0	91.6	94.8	98.1	98.1	98.7	98.7	98.7	98.7
≥ 200	49.7	75.5	84.5	87.1	91.0	91.6	94.8	98.1	98.1	98.7	98.7	98.7	98.7
≥ 100	49.7	75.5	84.5	87.1	91.0	91.6	94.8	98.1	98.1	98.7	98.7	98.7	98.7
≥ 0	49.7	75.5	84.5	87.1	91.0	91.6	94.8	98.1	98.1	98.7	98.7	98.7	98.7

155

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

OCT
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)13
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING	34.2	51.0	52.9	53.6	54.2	54.2	54.2	54.8	55.5	56.1	56.1	57.4
≥ 20000	34.8	55.5	57.4	58.1	58.7	58.7	58.7	59.4	59.4	60.0	60.7	61.9
≥ 18000	35.5	56.1	58.1	58.7	59.4	59.4	59.4	60.0	60.0	60.7	61.3	62.6
≥ 16000	35.5	56.1	58.1	58.7	59.4	59.4	59.4	60.0	60.0	60.7	61.3	62.6
≥ 14000	36.1	56.8	58.7	59.4	60.0	60.0	60.0	60.7	60.7	61.3	61.9	63.2
≥ 12000	36.1	56.8	58.7	59.4	60.0	60.0	60.0	60.7	60.7	61.3	61.9	63.2
≥ 10000	36.1	56.8	58.7	59.4	60.0	60.0	60.0	60.7	60.7	61.3	61.9	63.2
≥ 9000	36.1	56.8	58.7	59.4	60.0	60.0	60.0	60.7	60.7	61.3	61.9	63.2
≥ 8000	36.1	57.4	59.4	60.0	60.7	60.7	60.7	61.3	61.3	61.9	62.6	63.9
≥ 7000	36.1	57.4	59.4	60.0	60.7	60.7	60.7	61.3	61.3	61.9	62.6	63.9
≥ 6000	36.1	57.4	59.4	60.0	60.7	60.7	60.7	61.3	61.3	61.9	62.6	63.9
≥ 5000	36.1	58.1	60.0	60.7	61.3	61.3	61.3	61.9	61.9	62.6	63.2	64.5
≥ 4500	36.1	58.1	60.0	60.7	61.3	61.3	61.3	61.9	61.9	62.6	63.2	64.5
≥ 4000	36.1	58.1	60.0	60.7	61.3	61.3	61.3	61.9	61.9	62.6	63.2	64.5
≥ 3500	36.1	58.1	60.0	60.7	61.3	61.3	61.3	61.9	61.9	62.6	63.2	64.5
≥ 3000	37.4	60.0	61.9	62.6	63.2	63.2	63.2	63.9	63.9	64.5	65.2	66.5
≥ 2500	40.0	63.9	65.8	66.5	67.1	67.1	67.1	67.7	67.7	68.4	69.0	70.3
≥ 2000	42.6	68.4	71.0	71.6	72.3	72.3	72.3	72.9	72.9	73.6	74.2	75.5
≥ 1800	43.2	69.0	71.6	72.3	72.9	72.9	72.9	73.6	73.6	74.2	74.8	76.1
≥ 1500	45.5	72.3	75.5	76.8	77.4	77.4	77.4	78.1	78.1	78.7	79.4	80.7
≥ 1200	48.4	75.5	79.4	80.7	81.3	81.3	81.3	81.9	81.9	82.6	83.2	84.5
≥ 1000	49.0	76.8	81.3	82.6	83.2	83.2	83.2	83.9	83.9	84.5	85.2	86.5
≥ 900	49.0	77.4	81.9	83.2	83.9	83.9	83.9	84.5	84.5	85.2	85.8	87.1
≥ 800	49.0	79.4	84.5	87.1	89.7	89.7	89.7	90.3	90.3	91.0	91.6	92.9
≥ 700	49.7	80.0	85.2	88.4	91.0	91.0	91.0	91.6	91.6	92.3	92.9	94.2
≥ 600	49.7	80.7	85.8	89.0	93.6	93.6	94.2	94.8	94.8	95.5	96.1	97.4
≥ 500	49.7	81.3	87.1	90.3	94.8	94.8	96.1	96.8	96.8	97.4	98.1	99.4
≥ 400	49.7	81.3	87.1	90.3	94.8	94.8	96.1	96.8	96.8	97.4	98.1	99.4
≥ 300	49.7	81.3	87.1	90.3	94.8	94.8	96.1	97.4	97.4	98.1	98.7	100.0
≥ 200	49.7	81.3	87.1	90.3	94.8	94.8	96.1	97.4	97.4	98.1	98.7	100.0
≥ 100	49.7	81.3	87.1	90.3	94.8	94.8	96.1	97.4	97.4	98.1	98.7	100.0
0	49.7	81.3	87.1	90.3	94.8	94.8	96.1	97.4	97.4	98.1	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS

155

72

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117

STATION
SAN CLEMENTE, CALIFORNIA

73-77

OCT
MONTH

STATION NAME

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½
NO CEILING	39.4	56.1	57.4	57.4	57.4	58.1	58.7	59.4	59.4	59.4	59.4
≥ 20000	40.0	58.7	60.7	60.7	60.7	61.3	61.9	62.6	62.6	62.6	62.6
≥ 18000	40.0	58.7	60.7	60.7	60.7	61.3	61.9	62.6	62.6	62.6	62.6
≥ 16000	40.0	58.7	60.7	60.7	60.7	61.3	61.9	62.6	62.6	62.6	62.6
≥ 14000	40.0	58.7	60.7	60.7	60.7	61.3	61.9	62.6	62.6	62.6	62.6
≥ 12000	40.0	58.7	60.7	60.7	60.7	61.3	61.9	62.6	62.6	62.6	62.6
≥ 10000	40.0	58.7	60.7	60.7	60.7	61.3	61.9	62.6	62.6	62.6	62.6
≥ 9000	40.0	58.7	60.7	60.7	60.7	61.3	61.9	62.6	62.6	62.6	62.6
≥ 8000	40.0	60.7	62.6	62.6	62.6	63.2	63.9	64.5	64.5	64.5	64.5
≥ 7000	40.0	60.7	62.6	62.6	62.6	63.2	63.9	64.5	64.5	64.5	64.5
≥ 6000	40.0	60.7	62.6	62.6	62.6	63.2	63.9	64.5	64.5	64.5	64.5
≥ 5000	40.0	60.7	62.6	62.6	62.6	63.2	63.9	64.5	64.5	64.5	64.5
≥ 4500	40.7	61.3	63.2	63.2	63.2	63.9	64.5	65.2	65.2	65.2	65.2
≥ 4000	40.7	61.3	63.2	63.2	63.2	63.9	64.5	65.2	65.2	65.2	65.2
≥ 3500	40.7	61.3	63.2	63.2	63.2	63.9	64.5	65.2	65.2	65.2	65.2
≥ 3000	40.7	61.3	63.2	63.2	63.2	63.9	64.5	65.2	65.2	65.2	65.2
≥ 2500	41.9	62.6	64.5	64.5	64.5	65.2	65.8	66.5	66.5	66.5	66.5
≥ 2000	43.2	65.8	67.7	67.7	67.7	68.4	69.0	69.7	69.7	69.7	69.7
≥ 1800	43.2	66.5	68.4	68.4	68.4	69.0	69.7	70.3	70.3	70.3	70.3
≥ 1500	45.2	71.0	72.9	72.9	72.9	73.6	74.2	74.8	74.8	74.8	74.8
≥ 1200	47.7	74.8	76.8	76.8	76.8	77.4	78.1	78.7	78.7	78.7	78.7
≥ 1000	49.7	78.7	81.3	81.3	81.3	82.6	83.2	83.9	83.9	83.9	83.9
≥ 900	49.7	79.4	82.6	82.6	82.6	84.5	85.2	85.8	85.8	85.8	85.8
≥ 800	49.7	80.0	83.2	83.2	83.2	85.8	86.5	87.1	87.1	87.1	87.1
≥ 700	50.3	80.7	84.5	84.5	84.5	87.1	87.7	88.4	88.4	88.4	88.4
≥ 600	51.0	81.9	87.1	87.1	87.1	90.3	91.6	92.9	92.9	92.9	92.9
≥ 500	51.0	84.5	89.7	89.7	89.7	94.8	95.5	96.1	96.1	96.1	96.1
≥ 400	51.0	85.2	90.3	90.3	90.3	95.5	96.1	96.8	96.8	96.8	96.8
≥ 300	51.0	85.2	90.3	90.3	90.3	95.5	96.1	97.4	97.4	97.4	97.4
≥ 200	51.0	85.2	90.3	90.3	90.3	95.5	96.1	97.4	97.4	97.4	97.4
≥ 100	51.0	85.2	90.3	90.3	90.3	95.5	96.1	97.4	97.4	97.4	97.4
0	51.0	85.2	90.3	90.3	90.3	95.5	96.1	97.4	97.4	97.4	97.4

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

OCT
MONTH

19

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	32.3	49.0	51.0	51.0	52.3	52.3	52.9	53.6	53.6	54.2	54.2	54.2	54.2	54.2
≥ 20000	32.3	50.3	52.9	52.9	54.2	54.2	54.8	55.5	55.5	56.1	56.1	56.1	56.1	56.1
≥ 18000	32.9	51.0	53.6	53.6	54.8	54.8	55.5	56.1	56.1	56.8	56.8	56.8	56.8	56.8
≥ 16000	32.9	51.0	53.6	53.6	54.8	54.8	55.5	56.1	56.1	56.8	56.8	56.8	56.8	56.8
≥ 14000	33.6	51.6	54.2	54.2	55.5	55.5	56.1	56.8	56.8	57.4	57.4	57.4	57.4	57.4
≥ 12000	33.6	51.6	54.2	54.2	55.5	55.5	56.1	56.8	56.8	57.4	57.4	57.4	57.4	57.4
≥ 10000	33.6	51.6	54.2	54.2	55.5	55.5	56.1	56.8	56.8	57.4	57.4	57.4	57.4	57.4
≥ 9000	33.6	51.6	54.2	54.2	55.5	55.5	56.1	56.8	56.8	57.4	57.4	57.4	57.4	57.4
≥ 8000	33.6	51.6	54.2	54.2	55.5	55.5	56.1	56.8	56.8	57.4	57.4	57.4	57.4	57.4
≥ 7000	34.2	52.9	55.5	55.5	56.8	56.8	57.4	58.1	58.1	58.7	58.7	58.7	58.7	58.7
≥ 6000	34.2	52.9	55.5	55.5	56.8	56.8	57.4	58.1	58.1	58.7	58.7	58.7	58.7	58.7
≥ 5000	34.2	52.9	55.5	55.5	56.8	56.8	57.4	58.1	58.1	58.7	58.7	58.7	58.7	58.7
≥ 4500	34.2	52.9	55.5	55.5	56.8	56.8	57.4	58.1	58.1	58.7	58.7	58.7	58.7	58.7
≥ 4000	34.2	52.9	55.5	55.5	56.8	56.8	57.4	58.1	58.1	58.7	58.7	58.7	58.7	58.7
≥ 3500	34.2	52.9	55.5	55.5	56.8	56.8	57.4	58.1	58.1	58.7	58.7	58.7	58.7	58.7
≥ 3000	34.8	53.6	56.1	56.1	57.4	57.4	58.1	58.7	58.7	59.4	59.4	59.4	59.4	59.4
≥ 2500	36.1	56.8	59.4	59.4	60.7	60.7	61.3	61.9	61.9	62.6	62.6	62.6	62.6	62.6
≥ 2000	37.4	59.4	61.9	61.9	63.2	63.2	63.9	64.5	64.5	65.2	65.2	65.2	65.2	65.2
≥ 1800	38.4	61.9	64.5	64.5	65.8	65.8	66.5	67.1	67.1	67.7	67.7	67.7	67.7	67.7
≥ 1500	41.3	67.1	69.7	69.7	71.0	71.0	71.6	72.3	72.3	72.9	72.9	72.9	72.9	72.9
≥ 1200	41.9	69.7	73.6	73.6	74.8	74.8	75.5	76.1	76.1	76.8	76.8	76.8	76.8	76.8
≥ 1000	41.9	72.3	76.1	76.1	77.4	77.4	78.1	78.7	78.7	79.4	79.4	79.4	79.4	79.4
≥ 900	41.9	73.6	77.4	77.4	80.0	80.0	80.7	81.3	81.3	81.9	81.9	81.9	81.9	81.9
≥ 800	41.9	74.8	78.7	78.7	81.9	81.9	82.6	83.2	83.2	83.9	83.9	83.9	83.9	83.9
≥ 700	41.9	76.1	80.0	80.0	83.2	83.2	83.9	84.5	84.5	85.2	85.2	85.2	85.2	85.2
≥ 600	42.6	76.8	81.3	81.3	84.5	84.5	85.2	85.8	85.8	86.5	86.5	86.5	86.5	86.5
≥ 500	42.6	78.1	83.2	83.2	87.1	87.1	89.0	89.7	89.7	90.3	90.3	90.3	90.3	90.3
≥ 400	42.6	78.1	83.2	83.2	89.0	89.0	91.6	92.9	92.9	93.6	93.6	93.6	93.6	93.6
≥ 300	42.6	78.7	83.9	83.9	89.7	89.7	92.9	94.8	94.8	96.1	96.1	96.1	96.1	96.1
≥ 200	42.6	78.7	83.9	83.9	89.7	89.7	92.9	94.8	94.8	96.1	96.1	96.1	96.1	96.1
≥ 100	42.6	78.7	83.9	83.9	89.7	89.7	92.9	94.8	94.8	96.1	96.1	96.1	96.1	96.1
≥ 0	42.6	78.7	83.9	83.9	89.7	89.7	92.9	94.8	94.8	96.1	96.1	96.1	96.1	96.1

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION
93117

STATION NAME
SAN CLEMENTE, CALIFORNIA

YEARS
73-77

MONTH
OCT
22
HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING	29.0	52.9	54.2	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 20000	29.0	54.8	56.1	58.1	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 18000	29.0	54.8	56.1	58.1	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 16000	29.0	54.8	56.1	58.1	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 14000	29.0	54.8	56.1	58.1	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 12000	29.0	54.8	56.1	58.1	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 10000	29.7	55.5	56.8	58.7	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 9000	30.3	56.1	57.4	59.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 8000	30.3	56.1	57.4	59.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 7000	30.3	57.4	58.7	60.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 6000	30.3	57.4	58.7	60.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 5000	30.3	57.4	58.7	60.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 4500	30.3	57.4	58.7	60.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 4000	30.3	57.4	58.7	60.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 3500	30.3	57.4	58.7	60.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 3000	32.3	59.4	60.7	62.6	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 2500	32.3	60.0	61.3	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 2000	32.9	61.3	62.6	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 1800	34.2	62.6	63.9	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 1500	36.8	67.1	68.4	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 1200	38.1	71.6	73.0	75.5	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 1000	38.7	75.5	77.4	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 900	38.7	76.1	78.1	80.7	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 800	38.7	76.1	78.1	81.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 700	38.7	76.1	78.7	82.6	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 600	38.7	77.4	80.7	84.5	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 500	38.7	78.1	83.2	87.1	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 400	38.7	78.1	83.2	88.4	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 300	38.7	78.1	83.9	89.0	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 200	38.7	78.1	83.9	89.0	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 100	38.7	78.1	83.9	89.0	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 0	38.7	78.1	83.9	89.0	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

OCT
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)ALL
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16
NO CEILING												
≥ 20000	31.0	47.7	49.6	50.3	50.8	50.9	51.2	51.5	51.5	52.1	52.2	52.5
≥ 18000	31.2	49.4	51.4	52.1	52.6	52.7	53.0	53.3	53.3	53.9	54.0	54.3
≥ 16000	31.4	49.5	51.5	52.3	52.7	52.8	53.2	53.5	53.5	54.0	54.1	54.4
≥ 14000	31.4	49.5	51.5	52.3	52.7	52.8	53.2	53.5	53.5	54.0	54.1	54.4
≥ 12000	31.5	49.8	51.8	52.5	53.0	53.1	53.4	53.7	53.7	54.3	54.4	54.7
≥ 10000	31.7	50.0	52.0	52.7	53.2	53.3	53.6	54.0	54.0	54.6	54.6	54.9
≥ 9000	32.0	50.3	52.3	53.1	53.6	53.6	54.0	54.3	54.3	54.8	54.9	55.2
≥ 8000	32.1	50.4	52.4	53.2	53.6	53.7	54.0	54.4	54.4	54.9	55.0	55.3
≥ 7000	32.3	51.4	53.4	54.1	54.6	54.7	55.0	55.3	55.3	55.9	56.0	56.3
≥ 6000	32.3	51.7	53.7	54.4	54.9	55.0	55.3	55.7	55.7	56.2	56.3	56.6
≥ 5000	32.3	51.8	53.8	54.5	55.0	55.1	55.4	55.7	55.7	56.3	56.4	56.7
≥ 4500	32.5	51.9	54.0	54.7	55.2	55.2	55.6	55.9	55.9	56.5	56.5	56.9
≥ 4000	32.5	52.0	54.1	54.8	55.3	55.4	55.7	56.1	56.1	56.6	56.7	57.0
≥ 3500	32.5	52.0	54.1	54.8	55.3	55.4	55.7	56.1	56.1	56.6	56.7	57.0
≥ 3000	33.6	53.5	55.6	56.3	56.8	56.9	57.2	57.5	57.5	58.1	58.2	58.5
≥ 2500	34.7	55.9	58.0	58.7	59.2	59.3	59.6	59.9	59.9	60.5	60.6	60.9
≥ 2000	36.1	59.0	61.2	61.9	62.4	62.5	62.8	63.2	63.2	63.7	63.8	64.1
≥ 1800	36.8	60.2	62.5	63.2	63.7	63.8	64.1	64.4	64.4	65.0	65.1	65.4
≥ 1500	39.3	65.0	67.7	68.6	69.2	69.3	69.6	69.9	69.9	70.5	70.6	70.9
≥ 1200	40.9	68.9	72.7	73.6	74.2	74.3	74.6	74.9	74.9	75.5	75.6	75.9
≥ 1000	41.9	71.9	76.5	78.1	78.8	78.9	79.2	79.5	79.5	80.1	80.2	80.5
≥ 900	41.9	72.7	77.3	79.0	80.2	80.2	80.6	80.9	80.9	81.5	81.5	81.9
≥ 800	42.3	74.0	79.0	81.6	83.2	83.3	83.6	84.0	84.0	84.5	84.6	84.9
≥ 700	42.7	74.7	80.2	82.9	84.8	84.9	85.3	85.7	85.7	86.2	86.3	86.6
≥ 600	43.0	76.1	82.2	84.8	87.3	87.5	88.0	88.4	88.4	89.0	89.0	89.4
≥ 500	43.0	77.1	83.7	86.8	89.8	90.1	91.2	91.8	91.8	92.3	92.4	92.7
≥ 400	43.1	77.3	84.0	87.7	91.7	91.9	93.5	94.3	94.3	94.8	94.9	95.2
≥ 300	43.1	77.4	84.1	88.1	92.3	92.6	94.5	95.7	95.7	96.4	96.5	96.9
≥ 200	43.1	77.4	84.1	88.1	92.3	92.6	94.6	95.7	95.8	96.9	97.1	97.6
≥ 100	43.1	77.4	84.1	88.1	92.3	92.6	94.6	95.7	95.8	97.3	97.4	98.3
≥ 0	43.1	77.4	84.1	88.1	92.3	92.6	94.6	95.7	95.8	97.3	97.5	98.4

TOTAL NUMBER OF OBSERVATIONS

1240

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

NOV
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	31.3	66.0	66.0	66.7	67.3	67.3	68.0	68.7	68.7	68.7	68.7	69.3	69.3
≥ 20000	32.0	66.7	66.7	67.3	68.0	68.0	68.7	69.3	69.3	69.3	69.3	70.0	70.0
≥ 18000	32.0	66.7	66.7	67.3	68.0	68.0	68.7	69.3	69.3	69.3	69.3	70.0	70.0
≥ 16000	32.0	66.7	66.7	67.3	68.0	68.0	68.7	69.3	69.3	69.3	69.3	70.0	70.0
≥ 14000	32.0	66.7	66.7	67.3	68.0	68.0	68.7	69.3	69.3	69.3	69.3	70.0	70.0
≥ 12000	32.0	66.7	66.7	67.3	68.0	68.0	68.7	69.3	69.3	69.3	69.3	70.0	70.0
≥ 10000	32.0	66.7	66.7	67.3	68.0	68.0	68.7	69.3	69.3	69.3	69.3	70.0	70.0
≥ 9000	32.0	66.7	66.7	67.3	68.0	68.0	68.7	69.3	69.3	69.3	69.3	70.0	70.0
≥ 8000	32.0	66.7	66.7	67.3	68.0	68.0	68.7	69.3	69.3	69.3	69.3	70.0	70.0
≥ 7000	32.0	66.7	66.7	67.3	68.0	68.0	68.7	69.3	69.3	69.3	69.3	70.0	70.0
≥ 6000	32.0	66.7	66.7	67.3	68.0	68.0	68.7	69.3	69.3	69.3	69.3	70.0	70.0
≥ 5000	32.0	66.7	66.7	67.3	68.0	68.0	68.7	69.3	69.3	69.3	69.3	70.0	70.0
≥ 4500	32.0	66.7	66.7	67.3	68.0	68.0	68.7	69.3	69.3	69.3	69.3	70.0	70.0
≥ 4000	32.0	66.7	66.7	67.3	68.0	68.0	68.7	69.3	69.3	69.3	69.3	70.0	70.0
≥ 3500	32.7	67.3	67.3	68.0	68.7	69.3	69.3	70.0	70.0	70.0	70.0	71.3	71.3
≥ 3000	32.7	67.3	68.0	68.7	69.3	69.3	70.0	70.0	70.0	70.0	70.0	71.3	71.3
≥ 2500	32.7	67.3	68.7	69.3	70.0	70.0	70.0	70.0	71.3	71.3	71.3	72.0	72.0
≥ 2000	33.3	68.0	69.3	70.0	70.0	70.0	70.0	70.0	72.0	72.0	72.0	72.7	72.7
≥ 1800	33.3	68.7	70.0	72.0	72.7	72.7	73.3	74.0	74.0	74.0	74.0	74.7	74.7
≥ 1500	34.0	71.3	74.0	76.0	76.7	76.7	77.3	78.0	78.0	78.0	78.0	78.7	78.7
≥ 1200	36.0	74.7	77.3	79.3	80.0	80.0	80.7	81.3	81.3	81.3	81.3	82.0	82.0
≥ 1000	37.3	77.3	80.0	82.0	82.7	82.7	83.3	84.0	84.0	84.0	84.0	84.7	84.7
≥ 900	37.3	77.3	80.7	83.3	84.0	84.0	84.7	85.3	85.3	85.3	85.3	86.0	86.0
≥ 800	37.3	79.3	82.7	86.0	87.3	87.3	88.0	88.7	88.7	88.7	88.7	89.3	89.3
≥ 700	37.3	79.3	82.7	86.0	87.3	87.3	88.0	88.7	88.7	88.7	88.7	89.3	89.3
≥ 600	38.0	80.7	84.0	87.3	89.3	89.3	90.0	90.7	90.7	90.7	90.7	91.3	91.3
≥ 500	38.7	81.3	85.3	88.7	90.7	90.7	91.3	92.0	92.0	92.0	92.0	92.7	92.7
≥ 400	38.7	82.0	86.0	90.7	93.3	93.3	94.0	95.3	95.3	95.3	95.3	96.0	96.0
≥ 300	38.7	82.0	86.0	90.7	93.3	93.3	94.7	96.0	96.0	96.0	96.0	96.7	96.7
≥ 200	38.7	82.0	86.0	90.7	93.3	93.3	94.7	96.0	96.0	97.3	97.3	98.7	98.7
≥ 100	38.7	82.0	86.0	90.7	93.3	93.3	94.7	96.0	96.0	97.3	97.3	98.7	98.7
0	38.7	82.0	86.0	90.7	93.3	93.3	94.7	96.0	96.0	97.3	97.3	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

NOV
MONTH

04

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	20.0	66.7	68.0	69.3	69.3	70.0	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 2000	32.0	69.3	70.7	72.0	72.0	72.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
18000	32.0	69.3	70.7	72.0	72.0	72.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
16000	32.0	69.3	70.7	72.0	72.0	72.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
14000	32.0	69.3	70.7	72.0	72.0	72.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
12000	32.0	69.3	70.7	72.0	72.0	72.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
10000	32.0	69.3	70.7	72.0	72.0	72.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
9000	32.0	69.3	70.7	72.0	72.0	72.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
8000	32.0	69.3	70.7	72.0	72.0	72.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
7000	32.0	69.3	70.7	72.0	72.0	72.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
6000	32.0	69.3	70.7	72.0	72.0	72.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
5000	32.0	69.3	70.7	72.0	72.0	72.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
4500	32.0	69.3	70.7	72.0	72.0	72.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
4000	32.0	69.3	70.7	72.0	72.0	72.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
3500	32.0	69.3	70.7	72.0	72.0	72.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
3000	32.7	70.7	72.7	74.0	74.0	74.7	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
2500	32.7	71.3	74.7	75.0	76.0	76.7	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
2000	32.7	72.0	75.3	76.7	76.7	77.3	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
1800	32.7	72.0	75.3	77.3	77.3	78.0	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
1500	33.3	72.7	76.0	78.7	78.7	79.3	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
1200	34.7	74.0	78.0	80.7	80.7	81.3	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
1000	36.0	77.3	81.3	84.0	84.0	84.7	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
900	36.0	78.0	82.7	86.0	86.0	86.7	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
800	36.0	79.3	84.0	87.3	87.3	88.0	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
700	36.7	80.0	84.7	88.0	88.0	88.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
600	36.7	80.0	84.7	88.0	88.0	89.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
500	37.3	80.7	85.3	88.7	90.0	90.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
400	37.3	81.3	86.0	89.3	90.7	91.3	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7
300	37.3	81.3	86.0	90.0	92.0	92.7	96.0	96.7	96.7	97.3	97.3	97.3	97.3	97.3
200	37.3	81.3	86.0	90.0	92.0	92.7	96.0	96.7	96.7	97.3	97.3	97.3	97.3	97.3
100	37.3	81.3	86.0	90.0	92.0	92.7	96.0	96.7	96.7	97.3	98.0	98.0	98.0	98.0
0	37.3	81.3	86.0	90.0	92.0	92.7	96.0	96.7	96.7	97.3	98.0	98.0	98.0	98.0

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77
YEARS

NOV
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ ¾	≥ ½	≥ 5/16
NO CEILING	38.7	56.0	57.3	57.3	57.3	57.3	58.7	58.7	58.7	60.7	60.7	60.7
≥ 20000	40.0	58.7	60.0	60.0	60.0	60.0	61.3	61.3	61.3	63.3	63.3	63.3
18000	41.3	60.0	61.3	61.3	61.3	61.3	62.7	62.7	62.7	64.7	64.7	64.7
16000	41.3	60.0	61.3	61.3	61.3	61.3	62.7	62.7	62.7	64.7	64.7	64.7
14000	41.3	60.0	61.3	61.3	61.3	61.3	62.7	62.7	62.7	64.7	64.7	64.7
12000	41.3	60.0	61.3	61.3	61.3	61.3	62.7	62.7	62.7	64.7	64.7	64.7
10000	41.3	60.0	61.3	61.3	61.3	61.3	62.7	62.7	62.7	64.7	64.7	64.7
9000	41.3	60.0	61.3	61.3	61.3	61.3	62.7	62.7	62.7	64.7	64.7	64.7
8000	41.3	60.0	61.3	61.3	61.3	61.3	62.7	62.7	62.7	64.7	64.7	64.7
7000	41.3	60.0	61.3	61.3	61.3	61.3	62.7	62.7	62.7	64.7	64.7	64.7
6000	41.3	60.0	61.3	61.3	61.3	61.3	62.7	62.7	62.7	64.7	64.7	64.7
5000	41.3	60.0	61.3	61.3	61.3	61.3	62.7	62.7	62.7	64.7	64.7	64.7
4500	41.3	60.7	62.0	62.0	62.0	62.0	63.3	63.3	63.3	66.0	66.0	66.0
4000	41.3	62.0	63.3	63.3	63.3	63.3	64.7	64.7	64.7	67.3	67.3	67.3
3500	41.3	62.0	63.3	63.3	63.3	63.3	64.7	64.7	64.7	67.3	67.3	67.3
3000	42.0	63.3	64.7	64.7	64.7	64.7	66.0	66.0	66.0	68.7	68.7	68.7
2500	44.0	65.3	66.7	66.7	66.7	66.7	68.0	68.0	68.0	70.7	70.7	70.7
2000	44.7	66.0	68.0	68.0	68.0	68.0	69.3	69.3	69.3	72.0	72.0	72.0
1800	46.0	67.3	69.3	69.3	69.3	69.3	70.7	70.7	70.7	73.3	73.3	73.3
1500	46.7	68.7	70.7	70.7	70.7	70.7	72.7	72.7	72.7	75.3	75.3	75.3
1200	48.0	72.0	74.7	75.3	75.3	75.3	77.3	77.3	77.3	80.0	80.0	80.0
1000	52.0	77.3	80.7	82.0	82.0	82.0	84.0	84.0	84.0	86.7	86.7	86.7
900	52.7	78.7	82.0	83.3	83.3	83.3	85.3	85.3	85.3	88.0	88.0	88.0
800	53.3	79.3	82.7	84.7	85.3	85.3	87.3	87.3	87.3	90.0	90.0	90.0
700	53.3	79.3	82.7	84.7	85.3	85.3	87.3	87.3	87.3	90.0	90.0	90.0
600	53.3	79.3	82.7	85.3	86.7	86.7	88.7	88.7	88.7	92.0	92.0	92.0
500	53.3	80.0	83.3	85.0	86.0	86.0	90.0	90.0	90.0	93.3	93.3	93.3
400	53.3	81.3	84.7	87.3	90.0	90.0	92.0	92.0	92.0	96.0	96.0	96.0
300	53.3	82.0	85.3	88.0	91.3	91.3	94.0	94.0	94.0	98.7	98.7	98.7
200	53.3	82.0	85.3	88.0	91.3	91.3	94.0	94.0	94.0	99.3	99.3	99.3
100	53.3	82.0	85.3	88.0	91.3	91.3	94.0	94.0	94.0	99.3	99.3	99.3
0	53.3	82.0	85.3	88.0	91.3	91.3	94.0	94.0	94.0	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS

130

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

NOV
MONTH10
HOURS (L.S.T.)PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	47.3	65.3	68.0	68.7	68.7	68.7	68.7	68.7	68.7	69.3	69.3	69.3	70.0
≥ 20000	48.7	67.3	70.0	70.7	70.7	70.7	70.7	70.7	70.7	71.3	71.3	71.3	72.0
≥ 18000	48.7	67.3	70.0	70.7	70.7	70.7	70.7	70.7	70.7	71.3	71.3	71.3	72.0
≥ 16000	48.7	67.3	70.0	70.7	70.7	70.7	70.7	70.7	70.7	71.3	71.3	71.3	72.0
≥ 14000	48.7	67.3	70.0	70.7	70.7	70.7	70.7	70.7	70.7	71.3	71.3	71.3	72.0
≥ 12000	50.7	69.3	72.0	72.7	72.7	72.7	72.7	72.7	72.7	73.3	73.3	73.3	74.0
≥ 10000	51.3	70.0	72.7	73.3	73.3	73.3	73.3	73.3	73.3	74.0	74.0	74.0	74.7
≥ 9000	51.3	70.0	72.7	73.3	73.3	73.3	73.3	73.3	73.3	74.0	74.0	74.0	74.7
≥ 8000	51.3	70.7	73.3	74.0	74.0	74.0	74.0	74.0	74.0	74.7	74.7	74.7	75.3
≥ 7000	51.3	70.7	73.3	74.0	74.0	74.0	74.0	74.0	74.0	74.7	74.7	74.7	75.3
≥ 6000	51.3	70.7	73.3	74.0	74.0	74.0	74.0	74.0	74.0	74.7	74.7	74.7	75.3
≥ 5000	51.3	70.7	73.3	74.0	74.0	74.0	74.0	74.0	74.0	74.7	74.7	74.7	75.3
≥ 4500	51.3	70.7	73.3	74.0	74.0	74.0	74.0	74.0	74.0	74.7	74.7	74.7	75.3
≥ 4000	51.3	71.3	74.0	74.7	74.7	74.7	74.7	74.7	74.7	75.3	75.3	75.3	76.0
≥ 3500	52.0	72.0	74.7	75.3	75.3	75.3	75.3	75.3	75.3	76.0	76.0	76.0	76.7
≥ 3000	52.7	73.3	76.0	76.7	76.7	76.7	76.7	76.7	76.7	77.3	77.3	77.3	78.0
≥ 2500	53.3	74.0	76.7	77.3	77.3	77.3	77.3	77.3	77.3	78.0	78.0	78.0	78.7
≥ 2000	54.7	75.3	78.0	78.7	78.7	78.7	78.7	78.7	78.7	79.3	79.3	79.3	80.0
≥ 1800	54.7	75.3	78.0	78.7	78.7	78.7	78.7	78.7	78.7	79.3	79.3	79.3	80.0
≥ 1500	56.0	78.7	82.7	83.3	84.0	84.0	84.0	84.0	84.0	84.7	84.7	84.7	85.3
≥ 1200	57.3	80.0	84.0	84.7	86.0	86.0	86.0	86.0	86.0	86.7	86.7	86.7	87.3
≥ 1000	59.3	83.3	88.0	89.3	90.7	90.7	90.7	90.7	90.7	91.3	91.3	91.3	92.0
≥ 900	59.3	83.3	88.0	89.3	90.7	90.7	90.7	90.7	90.7	91.3	91.3	91.3	92.0
≥ 800	60.0	84.0	88.7	90.0	91.3	91.3	91.3	91.3	91.3	92.0	92.0	92.0	92.7
≥ 700	60.0	84.0	88.7	90.0	92.0	92.0	92.0	92.0	92.0	93.3	93.3	93.3	94.0
≥ 600	60.0	84.7	89.3	90.7	92.7	92.7	92.7	92.7	92.7	94.0	94.0	94.0	94.0
≥ 500	60.0	84.7	89.3	90.7	92.7	93.3	94.7	95.3	95.3	96.7	96.7	96.7	97.3
≥ 400	60.0	84.7	89.3	90.7	92.7	93.3	94.7	95.3	95.3	96.7	96.7	96.7	97.3
≥ 300	60.0	84.7	90.0	91.3	93.3	94.0	95.3	96.7	96.7	98.0	98.0	98.0	98.0
≥ 200	60.0	84.7	90.0	91.3	93.3	94.0	95.3	96.7	96.7	98.0	98.0	98.0	98.0
≥ 100	60.0	84.7	90.0	91.3	93.3	94.0	95.3	96.7	96.7	98.0	98.0	98.0	98.0
0	60.0	84.7	90.0	91.3	93.3	94.0	95.3	96.7	96.7	98.0	98.0	98.0	98.0

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

NOV
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	49.3	59.3	70.7	71.3	71.3	71.3	71.3	71.3	71.3	72.0	72.0	72.0	72.0
≥ 20000	52.0	73.3	74.7	75.3	75.3	75.3	75.3	75.3	75.3	76.0	76.0	76.0	76.0
≥ 18000	52.0	73.3	74.7	75.3	75.3	75.3	75.3	75.3	75.3	76.0	76.0	76.0	76.0
≥ 16000	52.0	73.3	74.7	75.3	75.3	75.3	75.3	75.3	75.3	76.0	76.0	76.0	76.0
≥ 14000	52.0	73.3	74.7	75.3	75.3	75.3	75.3	75.3	75.3	76.0	76.0	76.0	76.0
≥ 12000	52.7	74.0	75.3	76.0	76.0	76.0	76.0	76.0	76.0	76.7	76.7	76.7	76.7
≥ 10000	52.7	74.0	75.3	76.0	76.0	76.0	76.0	76.0	76.0	76.7	76.7	76.7	76.7
≥ 9000	53.3	74.7	76.0	76.7	76.7	76.7	76.7	76.7	76.7	77.3	77.3	77.3	77.3
≥ 8000	54.7	76.0	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.7	78.7	78.7	78.7
≥ 7000	54.7	76.0	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.7	78.7	78.7	78.7
≥ 6000	54.7	76.0	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.7	78.7	78.7	78.7
≥ 5000	54.7	76.0	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.7	78.7	78.7	78.7
≥ 4500	54.7	76.0	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.7	78.7	78.7	78.7
≥ 4000	55.3	76.7	78.0	78.7	78.7	78.7	78.7	78.7	78.7	79.3	79.3	79.3	79.3
≥ 3500	55.3	76.7	78.0	78.7	78.7	78.7	78.7	78.7	78.7	79.3	79.3	79.3	79.3
≥ 3000	56.7	78.0	79.3	80.0	80.0	80.0	80.0	80.0	80.0	80.7	80.7	80.7	80.7
≥ 2500	56.7	78.0	79.3	80.0	80.0	80.0	80.0	80.0	80.0	80.7	80.7	80.7	80.7
≥ 2000	58.7	80.7	82.7	84.0	84.0	84.0	84.0	84.0	84.0	84.7	84.7	84.7	84.7
≥ 1800	58.7	80.7	82.7	84.0	84.0	84.0	84.0	84.0	84.0	84.7	84.7	84.7	84.7
≥ 1500	58.7	82.7	84.7	86.7	86.7	86.7	86.7	86.7	86.7	87.3	87.3	87.3	87.3
≥ 1200	59.3	84.0	86.0	88.0	88.0	88.0	88.0	88.0	88.0	88.7	88.7	88.7	88.7
≥ 1000	61.3	86.0	88.7	91.3	91.3	91.3	91.3	91.3	91.3	92.0	92.0	92.0	92.0
≥ 900	61.3	86.0	88.7	91.3	91.3	91.3	91.3	91.3	91.3	92.0	92.0	92.0	92.0
≥ 800	62.7	87.3	90.0	92.7	92.7	92.7	92.7	92.7	92.7	93.3	93.3	93.3	93.3
≥ 700	62.7	87.3	90.0	92.7	92.7	92.7	92.7	92.7	92.7	93.3	93.3	93.3	93.3
≥ 600	62.7	88.0	90.7	93.3	93.3	93.3	93.3	93.3	93.3	94.7	94.7	94.7	94.7
≥ 500	63.3	88.7	92.0	94.7	94.7	94.7	94.7	94.7	94.7	95.3	95.3	95.3	95.3
≥ 400	63.3	88.7	92.0	94.7	94.7	94.7	94.7	94.7	94.7	95.3	95.3	95.3	95.3
≥ 300	63.3	88.7	92.0	94.7	94.7	94.7	94.7	94.7	94.7	95.3	95.3	95.3	95.3
≥ 200	63.3	88.7	92.0	94.7	94.7	94.7	94.7	94.7	94.7	95.3	95.3	95.3	95.3
≥ 100	63.3	88.7	92.0	94.7	94.7	94.7	94.7	94.7	94.7	95.3	95.3	95.3	95.3
0	63.3	88.7	92.0	94.7	94.7	94.7	94.7	94.7	94.7	95.3	95.3	95.3	95.3

TOTAL NUMBER OF OBSERVATIONS 150

CEILING VERSUS VISIBILITY

STATION
93117

STATION NAME
SAN CLEMENTE, CALIFORNIA

73-77

YEARS

NOV
MONTH

16
HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING	45.3	65.3	68.0	69.3	70.0	70.0	70.0	70.7	70.7	70.7	70.7	70.7
≥ 20000	48.7	70.0	73.3	74.7	75.3	75.3	75.3	76.0	76.0	76.0	76.0	76.0
≥ 18000	48.7	70.0	73.3	74.7	75.3	75.3	75.3	76.0	76.0	76.0	76.0	76.0
≥ 16000	48.7	70.0	73.3	74.7	75.3	75.3	75.3	76.0	76.0	76.0	76.0	76.0
≥ 14000	48.7	70.0	73.3	74.7	75.3	75.3	75.3	76.0	76.0	76.0	76.0	76.0
≥ 12000	48.7	70.0	73.3	74.7	75.3	75.3	75.3	76.0	76.0	76.0	76.0	76.0
≥ 10000	50.0	71.3	74.7	76.0	76.7	76.7	76.7	77.3	77.3	77.3	77.3	77.3
≥ 9000	51.3	72.7	76.0	77.3	78.0	78.0	78.0	78.7	78.7	78.7	78.7	78.7
≥ 8000	52.0	73.3	76.7	78.0	78.7	78.7	78.7	79.3	79.3	79.3	79.3	79.3
≥ 7000	52.0	73.3	76.7	78.0	78.7	78.7	78.7	79.3	79.3	79.3	79.3	79.3
≥ 6000	52.0	73.3	76.7	78.0	78.7	78.7	78.7	79.3	79.3	79.3	79.3	79.3
≥ 5000	52.0	73.3	76.7	78.0	78.7	78.7	78.7	79.3	79.3	79.3	79.3	79.3
≥ 4500	52.0	73.3	76.7	78.0	78.7	78.7	78.7	79.3	79.3	79.3	79.3	79.3
≥ 4000	52.7	74.0	77.3	78.7	79.3	79.3	79.3	80.0	80.0	80.0	80.0	80.0
≥ 3500	52.7	74.0	77.3	78.7	79.3	79.3	79.3	80.0	80.0	80.0	80.0	80.0
≥ 3000	53.3	74.7	78.0	79.3	80.0	80.0	80.0	80.7	80.7	80.7	80.7	80.7
≥ 2500	54.0	75.3	78.7	80.0	80.7	80.7	80.7	81.3	81.3	81.3	81.3	81.3
≥ 2000	54.7	76.7	80.7	82.0	82.7	82.7	82.7	83.3	83.3	83.3	83.3	83.3
≥ 1800	54.7	76.7	80.7	82.0	82.7	82.7	82.7	83.3	83.3	83.3	83.3	83.3
≥ 1500	56.7	80.7	84.7	86.0	87.3	87.3	87.3	88.0	88.0	88.0	88.0	88.0
≥ 1200	57.3	82.7	86.7	88.0	89.3	89.3	89.3	90.0	90.0	90.0	90.0	90.0
≥ 1000	57.3	82.7	87.3	89.3	91.3	91.3	91.3	92.0	92.0	92.0	92.0	92.0
≥ 900	58.7	84.0	88.7	90.7	92.7	92.7	92.7	93.3	93.3	93.3	93.3	93.3
≥ 800	60.0	85.3	90.0	92.0	94.0	94.0	94.0	94.7	94.7	94.7	94.7	94.7
≥ 700	60.0	85.3	90.0	92.0	94.0	94.0	94.0	95.3	95.3	95.3	95.3	95.3
≥ 600	60.0	86.0	90.7	92.7	94.7	94.7	94.7	96.0	96.0	96.0	96.0	96.0
≥ 500	60.0	86.0	90.7	94.0	96.0	96.0	96.0	97.3	97.3	97.3	97.3	97.3
≥ 400	60.0	86.0	90.7	94.7	96.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3
≥ 300	60.0	86.0	90.7	94.7	96.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3
≥ 200	60.0	86.0	90.7	94.7	96.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3
≥ 100	60.0	86.0	90.7	94.7	96.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3
0	60.0	86.0	90.7	94.7	96.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

NOV
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	37.3	63.3	66.7	68.7	69.3	69.3	69.3	69.3	69.3	70.0	70.0	70.0	70.7
≥ 20000	38.0	65.3	69.3	71.3	72.0	72.0	72.0	72.0	72.0	72.7	72.7	72.7	73.3
≥ 18000	38.0	66.0	70.0	72.0	72.7	72.7	72.7	72.7	72.7	73.3	73.3	73.3	74.0
≥ 16000	38.0	66.0	70.0	72.0	72.7	72.7	72.7	72.7	72.7	73.3	73.3	73.3	74.0
≥ 14000	38.7	66.7	70.7	72.7	73.3	73.3	73.3	73.3	73.3	74.0	74.0	74.7	74.7
≥ 12000	38.7	66.7	70.7	72.7	73.3	73.3	73.3	73.3	73.3	74.0	74.0	74.7	74.7
≥ 10000	38.7	67.3	71.3	73.3	74.0	74.0	74.0	74.0	74.0	74.7	74.7	75.3	75.3
≥ 9000	39.3	68.0	72.0	74.0	74.7	74.7	74.7	74.7	74.7	75.3	75.3	76.0	76.0
≥ 8000	39.3	68.0	72.7	74.7	75.3	75.3	75.3	75.3	75.3	76.0	76.0	76.7	76.7
≥ 7000	39.3	68.0	72.7	74.7	75.3	75.3	75.3	75.3	75.3	76.0	76.0	76.7	76.7
≥ 6000	39.3	68.0	72.7	74.7	75.3	75.3	75.3	75.3	75.3	76.0	76.0	76.7	76.7
≥ 5000	39.3	68.0	72.7	74.7	75.3	75.3	75.3	75.3	75.3	76.0	76.0	76.7	76.7
≥ 4500	39.3	68.0	72.7	74.7	75.3	75.3	75.3	75.3	75.3	76.0	76.0	76.7	76.7
≥ 4000	39.3	68.0	72.7	74.7	75.3	75.3	75.3	75.3	75.3	76.0	76.0	76.7	76.7
≥ 3500	39.3	68.0	72.7	74.7	75.3	75.3	75.3	75.3	75.3	76.0	76.0	76.7	76.7
≥ 3000	39.3	68.0	72.7	74.7	75.3	75.3	75.3	75.3	75.3	76.0	76.0	76.7	76.7
≥ 2500	40.0	69.3	74.0	76.0	76.7	76.7	76.7	76.7	76.7	77.3	77.3	78.0	78.0
≥ 2000	40.7	70.7	76.0	78.0	78.7	78.7	78.7	78.7	78.7	79.3	79.3	80.0	80.0
≥ 1800	40.7	71.3	76.7	79.3	80.0	80.0	80.0	80.0	80.0	80.7	80.7	81.3	81.3
≥ 1500	42.0	74.7	80.7	83.3	84.0	84.0	84.0	84.0	84.0	84.7	84.7	85.3	85.3
≥ 1200	42.7	76.0	82.0	84.7	86.0	86.0	86.0	86.0	86.0	86.7	86.7	87.3	87.3
≥ 1000	43.3	76.7	84.7	87.3	88.7	88.7	88.7	88.7	88.7	89.3	89.3	90.0	90.7
≥ 900	43.3	76.7	84.7	87.3	88.7	88.7	88.7	88.7	88.7	89.3	89.3	90.0	90.7
≥ 800	43.3	77.3	85.3	88.0	89.3	89.3	89.3	89.3	89.3	90.0	90.0	90.7	91.3
≥ 700	43.3	77.3	85.3	88.0	89.3	89.3	89.3	89.3	89.3	90.0	90.0	90.7	91.3
≥ 600	43.3	78.0	86.7	89.3	90.7	90.7	90.7	90.7	90.7	91.3	91.3	91.3	91.3
≥ 500	43.3	78.0	86.7	89.3	90.7	90.7	90.7	90.7	90.7	91.3	91.3	91.3	91.3
≥ 400	43.3	79.3	88.0	91.3	93.3	93.3	93.3	93.3	93.3	94.7	94.7	95.3	96.0
≥ 300	43.3	79.3	88.0	91.3	93.3	93.3	93.3	93.3	93.3	94.7	94.7	95.3	96.0
≥ 200	43.3	79.3	88.0	91.3	93.3	93.3	93.3	93.3	93.3	94.7	94.7	95.3	96.0
≥ 100	43.3	79.3	88.0	91.3	93.3	93.3	93.3	93.3	93.3	94.7	94.7	95.3	96.0
≥ 0	43.3	79.3	88.0	91.3	93.3	93.3	93.3	93.3	93.3	94.7	94.7	95.3	96.0

TOTAL NUMBER OF OBSERVATIONS

150

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

NOV
MONTH

22

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	34.7	68.7	70.0	70.7	72.7	72.7	73.3	73.3	73.3	74.0	74.0	74.0	74.0
≥ 20000	35.3	69.3	70.7	71.3	73.3	73.3	74.0	74.0	74.0	74.7	74.7	74.7	74.7
≥ 18000	35.3	69.3	70.7	71.3	73.3	73.3	74.0	74.0	74.0	74.7	74.7	74.7	74.7
≥ 16000	35.3	69.3	70.7	71.3	73.3	73.3	74.0	74.0	74.0	74.7	74.7	74.7	74.7
≥ 14000	36.0	70.0	71.3	72.0	74.0	74.0	74.7	74.7	74.7	75.3	75.3	75.3	75.3
≥ 12000	36.0	70.0	71.3	72.0	74.0	74.0	74.7	74.7	74.7	75.3	75.3	75.3	75.3
≥ 10000	36.0	70.0	71.3	72.0	74.0	74.0	74.7	74.7	74.7	75.3	75.3	75.3	75.3
≥ 9000	36.0	70.0	71.3	72.0	74.0	74.0	74.7	74.7	74.7	75.3	75.3	75.3	75.3
≥ 8000	36.0	70.0	71.3	72.0	74.0	74.0	74.7	74.7	74.7	75.3	75.3	75.3	75.3
≥ 7000	36.0	70.0	71.3	72.0	74.0	74.0	74.7	74.7	74.7	75.3	75.3	75.3	75.3
≥ 6000	36.0	70.0	71.3	72.0	74.0	74.0	74.7	74.7	74.7	75.3	75.3	75.3	75.3
≥ 5000	36.0	70.0	71.3	72.0	74.0	74.0	74.7	74.7	74.7	75.3	75.3	75.3	75.3
≥ 4500	36.0	70.0	71.3	72.0	74.0	74.0	74.7	74.7	74.7	75.3	75.3	75.3	75.3
≥ 4000	36.0	70.0	71.3	72.0	74.0	74.0	74.7	74.7	74.7	75.3	75.3	75.3	75.3
≥ 3500	36.0	70.0	71.3	72.0	74.0	74.0	74.7	74.7	74.7	75.3	75.3	75.3	75.3
≥ 3000	36.0	70.0	71.3	72.0	74.0	74.0	74.7	74.7	74.7	75.3	75.3	75.3	75.3
≥ 2500	36.0	70.0	71.3	72.0	74.0	74.0	74.7	74.7	74.7	75.3	75.3	75.3	75.3
≥ 2000	36.7	70.7	73.3	74.0	76.0	76.0	76.7	76.7	76.7	77.3	77.3	77.3	77.3
≥ 1800	36.7	70.7	73.3	74.7	76.7	76.7	77.3	77.3	77.3	78.0	78.0	78.0	78.0
≥ 1500	36.7	72.7	76.0	77.3	79.3	79.3	80.0	80.0	80.0	80.7	80.7	80.7	80.7
≥ 1200	36.7	74.7	78.0	80.7	82.7	82.7	83.3	83.3	83.3	84.0	84.0	84.0	84.0
≥ 1000	38.7	78.0	82.0	84.7	86.7	87.3	88.0	88.0	88.0	88.7	88.7	88.7	88.7
≥ 900	38.7	78.0	82.0	84.7	86.7	87.3	88.0	88.0	88.0	88.7	88.7	88.7	88.7
≥ 800	39.3	80.0	84.7	87.3	89.3	90.0	90.7	90.7	91.3	91.3	91.3	91.3	91.3
≥ 700	40.0	80.7	85.3	88.7	90.7	91.3	92.0	92.0	92.0	92.7	92.7	92.7	92.7
≥ 600	40.0	80.7	85.3	88.7	90.7	91.3	92.0	92.0	92.0	92.7	92.7	92.7	92.7
≥ 500	40.0	81.3	86.0	89.3	92.0	92.7	93.3	93.3	93.3	94.0	94.0	94.0	94.0
≥ 400	40.0	82.0	86.7	90.0	94.7	95.3	96.7	96.7	96.7	97.3	97.3	97.3	97.3
≥ 300	40.0	82.0	86.7	90.0	95.3	96.0	97.3	97.3	97.3	98.0	98.0	98.0	98.0
≥ 200	40.0	82.0	86.7	90.0	95.3	96.0	98.0	98.0	98.0	98.7	99.3	99.3	99.3
≥ 100	40.0	82.0	86.7	90.0	95.3	96.0	98.0	98.0	98.0	98.7	99.3	99.3	99.3
≥ 0	40.0	82.0	86.7	90.0	95.3	96.0	98.0	98.0	98.0	98.7	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

NOV
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	39.3	65.1	66.8	67.8	68.3	68.3	68.8	69.0	69.0	69.6	69.6	69.6	69.8	69.9
≥ 20000	40.8	67.5	69.4	70.3	70.8	70.9	71.4	71.6	71.6	72.2	72.2	72.2	72.4	72.5
≥ 18000	41.0	67.8	69.7	70.6	71.1	71.2	71.7	71.8	71.8	72.4	72.4	72.4	72.7	72.8
≥ 16000	41.0	67.8	69.7	70.6	71.1	71.2	71.7	71.8	71.8	72.4	72.4	72.4	72.7	72.8
≥ 14000	41.2	67.9	69.8	70.8	71.3	71.3	71.8	72.0	72.0	72.6	72.6	72.6	72.8	72.9
≥ 12000	41.5	68.3	70.2	71.1	71.6	71.7	72.2	72.3	72.3	72.9	72.9	73.2	73.2	73.3
≥ 10000	41.8	68.6	70.5	71.4	71.9	72.0	72.5	72.7	72.7	73.3	73.3	73.5	73.5	73.6
≥ 9000	42.1	68.9	70.8	71.8	72.3	72.3	72.8	73.0	73.0	73.6	73.6	73.8	73.8	73.9
≥ 8000	42.3	69.3	71.3	72.2	72.7	72.8	73.3	73.4	73.4	74.0	74.0	74.3	74.3	74.6
≥ 7000	42.3	69.3	71.3	72.2	72.7	72.8	73.3	73.4	73.4	74.0	74.0	74.3	74.3	74.6
≥ 6000	42.3	69.3	71.3	72.2	72.7	72.8	73.3	73.4	73.4	74.0	74.0	74.3	74.3	74.6
≥ 5000	42.3	69.3	71.3	72.2	72.7	72.8	73.3	73.4	73.4	74.0	74.0	74.3	74.3	74.6
≥ 4500	42.3	69.3	71.3	72.2	72.7	72.8	73.3	73.4	73.4	74.0	74.0	74.3	74.3	74.6
≥ 4000	42.5	69.8	71.8	72.7	73.2	73.3	73.8	73.9	73.9	74.6	74.6	74.8	74.8	75.2
≥ 3500	42.7	69.9	71.9	72.8	73.3	73.4	73.9	74.1	74.1	74.8	74.8	75.0	75.0	75.3
≥ 3000	43.2	70.7	72.8	73.8	74.3	74.3	74.8	75.0	75.0	75.7	75.7	75.9	75.9	76.3
≥ 2500	43.7	71.3	73.9	74.8	75.3	75.4	75.9	76.1	76.1	76.8	76.8	77.0	77.0	77.3
≥ 2000	44.5	72.5	75.4	76.4	76.9	77.0	77.5	77.7	77.7	78.3	78.3	78.6	78.6	78.9
≥ 1800	44.7	72.8	75.8	77.2	77.7	77.8	78.3	78.4	78.4	79.1	79.1	79.3	79.3	79.7
≥ 1500	45.5	75.3	78.7	80.3	80.9	81.0	81.6	81.8	81.8	82.4	82.4	82.7	82.7	83.0
≥ 1200	46.5	77.3	80.8	82.7	83.5	83.6	84.2	84.3	84.3	85.0	85.0	85.3	85.3	85.6
≥ 1000	48.2	79.8	84.1	86.3	87.2	87.3	88.0	88.2	88.2	88.8	88.8	89.1	89.1	89.5
≥ 900	48.4	80.3	84.7	87.0	87.9	88.1	88.8	88.9	88.9	89.6	89.6	89.8	89.8	90.3
≥ 800	49.0	81.5	86.0	88.5	89.6	89.8	90.4	90.6	90.6	91.3	91.3	91.5	91.5	91.9
≥ 700	49.2	81.7	86.2	88.8	89.9	90.1	91.0	91.2	91.2	91.8	91.8	92.1	92.1	92.6
≥ 600	49.3	82.2	86.8	89.4	90.8	91.1	92.3	92.5	92.6	93.3	93.3	93.5	93.5	94.0
≥ 500	49.5	82.6	87.3	90.2	92.0	92.3	93.6	93.9	94.0	94.8	94.8	95.0	95.0	95.5
≥ 400	49.5	83.2	87.9	91.1	93.4	93.8	95.1	96.0	96.1	96.8	96.8	97.1	97.1	97.6
≥ 300	49.5	83.3	88.1	91.3	93.9	94.3	95.8	96.9	97.0	97.8	98.0	98.3	98.3	98.8
≥ 200	49.5	83.3	88.1	91.3	93.9	94.3	95.9	97.1	97.2	98.3	98.6	98.9	98.9	99.5
≥ 100	49.5	83.3	88.1	91.3	93.9	94.3	95.9	97.1	97.2	98.4	98.8	99.2	99.2	99.8
≥ 0	49.5	83.3	88.1	91.3	93.9	94.3	95.9	97.1	97.2	98.4	98.8	99.2	99.2	100.0

TOTAL NUMBER OF OBSERVATIONS

1200

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION
03117STATION NAME
SAN CLEMENTE, CALIFORNIA

73-77

YEARS

DEC

MONTH

01

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	27.7	60.7	63.9	65.2	67.1	67.1	67.1	67.1	67.1	67.7	67.7	67.7	67.7	67.7
≥ 20000	28.4	61.9	65.8	67.7	69.0	69.0	69.7	69.7	69.7	70.3	70.3	70.3	70.3	70.3
≥ 18000	28.4	61.9	65.8	67.7	69.0	69.0	69.7	69.7	69.7	70.3	70.3	70.3	70.3	70.3
≥ 16000	28.4	61.9	65.8	67.7	69.0	69.0	69.7	69.7	69.7	70.3	70.3	70.3	70.3	70.3
≥ 14000	29.7	63.2	67.1	69.0	70.3	70.3	71.0	71.0	71.0	71.6	71.6	71.6	71.6	71.6
≥ 12000	29.7	63.2	67.1	69.0	70.3	70.3	71.0	71.0	71.0	71.6	71.6	71.6	71.6	71.6
≥ 10000	29.7	63.9	67.7	69.7	71.0	71.0	71.6	71.6	71.6	72.3	72.3	72.3	72.3	72.3
≥ 9000	29.7	63.9	67.7	69.7	71.0	71.0	71.6	71.6	71.6	72.3	72.3	72.3	72.3	72.3
≥ 8000	29.7	64.5	68.4	70.3	71.6	71.6	72.3	72.3	72.3	72.9	72.9	72.9	72.9	72.9
≥ 7000	29.7	64.5	68.4	70.3	71.6	71.6	72.3	72.3	72.3	72.9	72.9	72.9	72.9	72.9
≥ 6000	29.7	64.5	68.4	70.3	71.6	71.6	72.3	72.3	72.3	72.9	72.9	72.9	72.9	72.9
≥ 5000	29.7	65.8	69.7	71.6	72.9	72.9	73.6	73.6	73.6	74.2	74.2	74.2	74.2	74.2
≥ 4500	29.7	65.8	69.7	71.6	72.9	72.9	73.6	73.6	73.6	74.2	74.2	74.2	74.2	74.2
≥ 4000	29.7	66.5	70.3	72.3	73.6	73.6	74.2	74.2	74.2	74.8	74.8	74.8	74.8	74.8
≥ 3500	30.3	67.1	71.0	72.9	74.2	74.2	74.8	74.8	74.8	75.5	75.5	75.5	75.5	75.5
≥ 3000	30.3	67.1	71.0	72.9	74.2	74.2	74.8	74.8	74.8	75.5	75.5	75.5	75.5	75.5
≥ 2500	31.0	68.4	72.3	74.8	76.1	76.1	76.8	76.8	76.8	77.4	77.4	77.4	77.4	77.4
≥ 2000	31.6	71.0	75.5	78.1	79.4	79.4	80.0	80.0	80.0	80.7	80.7	80.7	80.7	80.7
≥ 1800	31.6	71.0	75.5	78.1	79.4	79.4	80.0	80.0	80.0	80.7	80.7	80.7	80.7	80.7
≥ 1500	31.6	72.3	77.4	80.7	81.9	81.9	82.6	82.6	82.6	83.2	83.2	83.2	83.2	83.2
≥ 1200	32.3	74.8	80.0	83.2	84.5	84.5	85.2	85.2	85.2	85.8	85.8	85.8	85.8	85.8
≥ 1000	32.3	76.8	81.9	85.2	86.5	86.5	87.1	87.1	87.1	87.7	87.7	87.7	87.7	87.7
≥ 900	32.3	76.8	81.9	85.2	86.5	86.5	87.1	87.1	87.1	87.7	87.7	87.7	87.7	87.7
≥ 800	32.3	76.8	82.6	85.8	87.1	87.7	88.4	88.4	88.4	89.0	89.0	89.0	89.0	89.0
≥ 700	32.3	76.8	82.6	85.8	87.1	87.7	88.4	88.4	88.4	89.0	89.0	89.0	89.0	89.0
≥ 600	32.3	77.4	83.2	87.1	88.4	88.4	89.0	89.0	89.0	90.3	90.3	90.3	90.3	90.3
≥ 500	32.3	78.7	84.5	88.4	89.7	89.7	90.3	90.3	90.3	91.0	91.0	91.0	91.0	91.0
≥ 400	32.3	78.7	85.2	89.0	90.3	90.3	91.0	91.0	91.0	91.6	91.6	91.6	91.6	91.6
≥ 300	32.3	78.7	85.2	89.7	91.0	91.0	91.6	91.6	91.6	92.3	92.3	92.3	92.3	92.3
≥ 200	32.3	78.7	85.2	89.7	91.0	91.0	91.6	91.6	91.6	92.3	92.3	92.3	92.3	92.3
≥ 100	32.3	78.7	85.2	89.7	91.0	91.0	91.6	91.6	91.6	92.3	92.3	92.3	92.3	92.3
0	32.3	78.7	85.2	89.7	91.0	91.0	91.6	91.6	91.6	92.3	92.3	92.3	92.3	92.3

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

0800

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

DEC
MONTH

04
HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	27.7	62.6	64.5	65.2	65.2	65.2	66.5	67.1	67.1	67.1	67.1	67.7	67.7
≥ 20000	27.7	64.5	66.5	67.1	67.1	67.1	68.4	69.0	69.0	69.0	69.7	70.3	70.3
18000	27.7	54.5	66.5	67.1	67.7	67.7	69.0	69.7	69.7	69.7	70.3	71.0	71.0
16000	27.7	64.5	66.5	67.1	67.7	67.7	69.0	69.7	69.7	69.7	70.3	71.0	71.0
14000	28.4	65.2	67.1	67.7	68.4	68.4	69.7	70.3	70.3	70.3	71.0	71.6	71.6
12000	29.0	65.8	67.7	68.4	69.0	69.0	70.3	71.0	71.0	71.0	71.6	72.3	72.3
10000	29.0	65.8	67.7	68.4	69.0	69.0	70.3	71.0	71.0	71.0	71.6	72.3	72.3
9000	29.0	65.8	67.7	68.4	69.0	69.0	70.3	71.0	71.0	71.0	71.6	72.3	72.3
8000	29.0	66.5	68.4	69.0	69.7	69.7	71.0	71.6	71.6	71.6	72.3	72.9	72.9
7000	29.0	66.5	68.4	69.0	69.7	69.7	71.0	71.6	71.6	71.6	72.3	72.9	72.9
6000	29.0	66.5	68.4	69.0	69.7	69.7	71.0	71.6	71.6	71.6	72.3	72.9	72.9
5000	29.0	67.1	69.0	69.7	70.3	70.3	71.6	72.3	72.3	72.3	72.9	73.6	73.6
4500	29.0	67.1	69.0	69.7	70.3	70.3	71.6	72.3	72.3	72.3	72.9	73.6	73.6
4000	29.0	67.1	69.0	69.7	70.3	70.3	71.6	72.3	72.3	72.3	72.9	73.6	73.6
3500	29.0	67.1	69.0	69.7	70.3	70.3	71.6	72.3	72.3	72.3	72.9	73.6	73.6
3000	29.0	67.1	69.0	69.7	70.3	70.3	71.6	72.3	72.3	72.3	72.9	73.6	73.6
2500	29.0	69.0	71.0	72.3	73.6	73.6	74.8	75.5	75.5	75.5	76.1	76.8	76.8
2000	29.7	71.0	73.6	76.1	77.4	77.4	78.7	79.4	79.4	79.4	80.0	80.7	80.7
1800	29.7	71.0	73.6	76.1	77.4	77.4	78.7	79.4	79.4	79.4	80.0	80.7	80.7
1500	31.0	74.8	77.4	80.0	81.3	81.3	82.6	83.2	83.2	83.2	83.9	84.5	84.5
1200	31.6	77.4	80.0	82.6	83.9	83.9	85.2	85.8	85.8	86.5	87.1	87.7	87.7
1000	31.6	78.7	81.3	83.9	85.2	85.2	87.1	87.7	87.7	88.4	89.0	89.7	89.7
900	31.6	78.7	81.3	83.9	85.2	85.2	87.1	87.7	87.7	88.4	89.0	89.7	89.7
800	31.6	79.4	82.6	85.8	87.1	87.1	89.0	89.7	89.7	90.3	91.0	91.6	91.6
700	31.6	80.0	83.2	86.5	87.7	87.7	89.7	90.3	90.3	91.0	91.6	92.3	92.3
600	31.6	80.0	83.2	87.1	88.4	88.4	91.0	91.6	91.6	92.3	92.9	93.6	93.6
500	31.6	80.7	83.9	87.7	89.0	89.0	91.0	92.3	92.3	92.9	93.6	94.2	94.2
400	31.6	80.7	84.5	88.4	90.3	90.3	92.9	93.6	93.6	94.2	94.8	95.5	95.5
300	31.6	80.7	85.2	89.0	91.0	91.0	93.6	94.8	94.8	95.5	96.1	96.8	96.8
200	31.6	80.7	85.2	89.0	91.0	91.0	93.6	94.8	94.8	95.5	96.1	96.8	96.8
100	31.6	80.7	85.2	89.0	91.0	91.0	93.6	94.8	94.8	95.5	96.1	96.8	96.8
0	31.6	80.7	85.2	89.0	91.0	91.0	93.6	94.8	94.8	95.5	96.1	96.8	96.8

TOTAL NUMBER OF OBSERVATIONS 155

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION
93117STATION NAME
SAN CLEMENTE, CALIFORNIA

73-77

YEARS

DEC
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)07
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	36.8	54.8	58.1	58.7	61.3	61.3	61.9	62.6	62.6	63.2	63.2	64.5	64.5
≥ 20000	39.4	60.0	63.2	63.9	66.5	66.5	67.7	68.4	68.4	69.0	69.0	70.3	70.3
AI 18000	39.4	60.0	63.2	63.9	66.5	66.5	67.7	68.4	68.4	69.0	69.0	70.3	70.3
AI 16000	39.4	60.0	63.2	63.9	66.5	66.5	67.7	68.4	68.4	69.0	69.0	70.3	70.3
AI 14000	40.0	60.7	63.9	65.2	67.7	67.7	69.0	69.7	69.7	70.3	70.3	71.6	71.6
AI 12000	40.0	60.7	63.9	65.2	67.7	67.7	69.0	69.7	69.7	70.3	70.3	71.6	71.6
AI 10000	40.7	61.3	64.5	65.8	68.4	68.4	69.7	70.3	70.3	71.0	71.0	72.3	72.3
AI 9000	40.7	61.3	64.5	65.8	68.4	68.4	69.7	70.3	70.3	71.0	71.0	72.3	72.3
AI 8000	41.3	61.9	65.2	66.5	69.0	69.0	70.3	71.0	71.0	71.6	71.6	72.9	72.9
AI 7000	41.3	61.9	65.2	66.5	69.0	69.0	70.3	71.0	71.0	71.6	71.6	72.9	72.9
AI 6000	41.3	61.9	65.2	66.5	69.0	69.0	70.3	71.0	71.0	71.6	71.6	72.9	72.9
AI 5000	41.3	61.9	65.2	66.5	69.0	69.0	70.3	71.0	71.0	71.6	71.6	72.9	72.9
AI 4500	41.3	61.9	65.2	66.5	69.0	69.0	70.3	71.0	71.0	71.6	71.6	72.9	72.9
AI 4000	41.3	61.9	65.2	66.5	69.0	69.0	70.3	71.0	71.0	71.6	71.6	72.9	72.9
AI 3500	41.3	61.9	65.2	66.5	69.0	69.0	70.3	71.0	71.0	71.6	71.6	72.9	72.9
AI 3000	41.9	62.6	65.8	67.1	69.7	69.7	71.0	71.6	71.6	72.3	72.3	73.6	73.6
AI 2500	42.6	65.2	69.0	70.3	72.9	72.9	74.2	75.5	75.5	76.8	76.8	78.1	78.1
AI 2000	43.2	67.1	71.0	72.3	75.5	75.5	76.8	78.1	78.1	79.4	79.4	80.7	80.7
AI 1800	43.9	67.7	71.6	72.9	76.1	76.1	77.4	78.7	78.7	80.0	80.0	81.3	81.3
AI 1500	45.2	70.3	74.8	76.1	79.4	79.4	80.7	81.9	81.9	83.9	83.9	85.2	85.2
AI 1200	46.5	72.9	77.4	78.7	81.9	81.9	83.2	84.5	84.5	86.5	86.5	87.7	87.7
AI 1000	46.5	76.1	81.3	83.9	87.1	87.1	88.4	89.7	89.7	91.6	91.6	92.9	92.9
AI 900	46.5	76.1	81.3	83.9	87.7	87.7	89.0	90.3	90.3	92.3	92.3	93.6	93.6
AI 800	46.5	76.8	81.9	84.5	88.4	88.4	89.7	91.0	91.0	92.9	92.9	94.2	94.2
AI 700	46.5	79.4	84.5	87.1	91.0	91.0	92.3	93.6	93.6	95.5	95.5	96.8	96.8
AI 600	46.5	79.4	84.5	87.1	91.0	91.0	92.3	93.6	93.6	95.5	95.5	96.8	96.8
AI 500	46.5	79.4	85.2	87.7	91.6	91.6	92.9	94.2	94.2	96.1	96.1	97.4	97.4
AI 400	46.5	80.0	85.8	88.4	92.3	92.3	93.6	94.8	94.8	96.8	96.8	98.1	98.1
AI 300	46.5	80.0	85.8	88.4	92.3	92.3	93.6	94.8	94.8	96.8	96.8	98.1	98.1
AI 200	46.5	80.0	85.8	88.4	92.3	92.3	93.6	94.8	94.8	96.8	96.8	98.1	98.1
AI 100	46.5	80.0	85.8	88.4	92.3	92.3	93.6	94.8	94.8	96.8	96.8	98.1	98.1
AI 0	46.5	80.0	85.8	88.4	92.3	92.3	93.6	94.8	94.8	96.8	96.8	98.1	98.1

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117

STATION NAME
SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

DEC

MONTH

10

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	49.0	62.6	63.9	65.4	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 20000	49.0	65.8	67.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 18000	49.0	65.8	67.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 16000	49.0	65.8	67.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 14000	49.7	66.5	68.4	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 12000	49.7	66.5	68.4	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 10000	51.0	67.7	69.7	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 9000	51.0	67.7	69.7	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 8000	51.6	68.4	70.3	72.3	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 7000	51.6	69.0	71.0	72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 6000	51.6	69.0	71.0	72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 5000	51.6	69.0	71.0	72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 4500	51.6	69.0	71.0	72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 4000	51.6	69.7	71.6	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 3500	51.6	69.7	71.6	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 3000	51.6	69.7	71.6	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 2500	52.9	73.6	75.5	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 2000	54.2	74.8	77.4	80.0	80.7	80.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3
≥ 1800	54.2	74.8	77.4	80.0	80.7	80.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3
≥ 1500	56.1	78.7	81.3	83.9	84.5	84.5	85.2	85.8	85.8	85.8	85.8	85.8	85.8
≥ 1200	56.1	78.7	81.3	83.9	84.5	84.5	85.2	85.8	85.8	85.8	85.8	85.8	85.8
≥ 1000	58.1	81.9	85.2	88.4	89.0	89.0	89.7	90.3	90.3	90.3	90.3	90.3	90.3
≥ 900	58.1	81.9	85.2	88.4	89.0	89.0	89.7	90.3	90.3	90.3	90.3	90.3	90.3
≥ 800	58.7	84.5	87.7	91.0	92.3	92.3	92.9	93.6	93.6	93.6	93.6	93.6	93.6
≥ 700	58.7	84.5	87.7	91.0	92.3	92.3	92.9	93.6	93.6	93.6	93.6	93.6	93.6
≥ 600	58.7	84.5	87.7	91.0	92.3	92.3	92.9	93.6	93.6	93.6	93.6	93.6	93.6
≥ 500	59.4	86.5	89.7	93.6	94.8	94.8	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 400	59.4	86.5	89.7	93.6	94.8	94.8	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 300	59.4	86.5	89.7	93.6	94.8	94.8	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 200	59.4	86.5	89.7	93.6	94.8	94.8	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 100	59.4	86.5	89.7	93.6	94.8	94.8	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 0	59.4	86.5	89.7	93.6	94.8	94.8	95.5	96.1	96.1	96.1	96.1	96.1	96.1

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME

YEARS

DEC

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

13

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING	47.1	58.7	62.6	63.9	64.5	64.5	64.5	65.2	65.2	65.2	65.2
≥ 20000	47.7	62.6	67.7	69.0	69.7	69.7	69.7	70.3	70.3	70.3	70.3
18000	48.4	63.2	68.4	69.7	70.3	70.3	70.3	71.0	71.0	71.0	71.0
≥ 16000	48.4	63.2	68.4	69.7	70.3	70.3	70.3	71.0	71.0	71.0	71.0
14000	49.0	63.9	69.0	70.3	71.0	71.0	71.0	71.6	71.6	71.6	71.6
≥ 12000	49.7	64.5	69.7	71.0	71.6	71.6	71.6	72.3	72.3	72.3	72.3
10000	49.7	64.5	69.7	71.0	71.6	71.6	71.6	72.3	72.3	72.3	72.3
≥ 9000	49.7	65.2	70.3	71.6	72.3	72.3	72.3	72.9	72.9	72.9	72.9
8000	51.6	67.7	72.9	74.2	74.8	74.8	74.8	75.5	75.5	75.5	75.5
≥ 7000	52.3	69.0	74.2	75.5	76.1	76.1	76.1	76.8	76.8	76.8	76.8
6000	52.9	69.7	74.8	76.1	76.8	76.8	76.8	77.4	77.4	77.4	77.4
≥ 5000	52.9	69.7	74.8	76.1	76.8	76.8	76.8	77.4	77.4	77.4	77.4
4500	52.9	69.7	74.8	76.1	76.8	76.8	76.8	77.4	77.4	77.4	77.4
≥ 4000	52.9	69.7	74.8	76.1	76.8	76.8	76.8	77.4	77.4	77.4	77.4
3500	52.9	69.7	74.8	76.1	76.8	76.8	76.8	77.4	77.4	77.4	77.4
≥ 3000	54.2	71.0	76.1	77.4	78.1	78.1	78.1	78.7	78.7	78.7	78.7
2500	54.2	72.3	77.4	78.7	79.4	79.4	79.4	80.0	80.0	80.0	80.0
≥ 2000	56.1	75.5	80.7	81.9	82.6	82.6	82.6	83.2	83.2	83.2	83.2
1800	56.8	77.4	82.6	83.3	84.5	84.5	84.5	85.8	85.8	85.8	85.8
≥ 1500	58.7	80.7	86.5	87.7	88.4	88.4	88.4	89.7	89.7	89.7	89.7
1200	58.7	81.3	87.7	89.0	89.7	89.7	89.7	91.0	91.0	91.0	91.0
≥ 1000	59.4	82.6	89.0	90.3	91.0	91.0	91.0	92.3	92.3	92.3	92.3
900	59.4	83.2	89.7	91.0	91.6	91.6	91.6	92.9	92.9	92.9	92.9
≥ 800	60.0	86.5	92.9	94.2	95.5	95.5	95.5	96.8	96.8	96.8	96.8
700	60.0	86.5	92.9	94.2	95.5	95.5	95.5	96.8	96.8	96.8	96.8
≥ 600	60.0	87.1	93.6	94.8	96.1	96.1	96.1	97.4	97.4	97.4	97.4
500	60.0	88.4	94.8	96.1	97.4	97.4	97.4	98.1	98.1	98.1	98.1
≥ 400	60.0	88.4	94.8	96.1	97.4	97.4	97.4	98.1	98.1	98.1	98.1
300	60.0	88.4	94.8	96.1	97.4	97.4	97.4	98.1	98.1	98.1	98.1
≥ 200	60.0	88.4	94.8	96.1	97.4	97.4	97.4	98.1	98.1	98.1	98.1
100	60.0	88.4	94.8	96.1	97.4	97.4	97.4	98.1	98.1	98.1	98.1
0	60.0	88.4	94.8	96.1	97.4	97.4	97.4	98.1	98.1	98.1	98.1

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

DEC
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	53.3	63.0	66.9	68.2	68.2	68.2	68.2	68.8	68.8	68.8	68.8	68.8	68.8
≥ 20000	54.6	66.9	70.8	72.7	73.4	73.4	73.4	74.0	74.0	74.0	74.0	74.0	74.0
≥ 18000	54.6	66.9	70.8	72.7	73.4	73.4	73.4	74.0	74.0	74.0	74.0	74.0	74.0
≥ 16000	55.2	67.5	71.4	73.4	74.0	74.0	74.0	74.7	74.7	74.7	74.7	74.7	74.7
≥ 14000	55.2	67.5	71.4	73.4	74.0	74.0	74.0	74.7	74.7	74.7	74.7	74.7	74.7
≥ 12000	55.8	68.2	72.1	74.0	74.7	74.7	74.7	75.3	75.3	75.3	75.3	75.3	75.3
≥ 10000	56.5	69.5	73.4	75.3	76.0	76.0	76.0	76.6	76.6	76.6	76.6	76.6	76.6
≥ 9000	57.8	70.8	74.7	76.6	77.3	77.3	77.3	77.9	77.9	77.9	77.9	77.9	77.9
≥ 8000	57.8	71.4	75.3	77.3	77.9	77.9	77.9	78.6	78.6	78.6	78.6	78.6	78.6
≥ 7000	57.8	72.1	76.0	77.9	78.6	78.6	78.6	79.2	79.2	79.2	79.2	79.2	79.2
≥ 6000	57.8	72.1	76.0	78.6	79.2	79.2	79.2	79.9	79.9	79.9	79.9	79.9	79.9
≥ 5000	58.4	72.7	76.6	79.9	80.5	80.5	80.5	81.2	81.2	81.2	81.2	81.2	81.2
≥ 4500	58.4	72.7	76.6	79.9	80.5	80.5	80.5	81.2	81.2	81.2	81.2	81.2	81.2
≥ 4000	58.4	72.7	76.6	79.9	80.5	80.5	80.5	81.2	81.2	81.2	81.2	81.2	81.2
≥ 3500	58.4	72.7	76.6	79.9	80.5	80.5	80.5	81.2	81.2	81.2	81.2	81.2	81.2
≥ 3000	59.1	73.4	77.3	81.2	81.8	81.8	81.8	82.5	82.5	82.5	82.5	82.5	82.5
≥ 2500	59.1	73.4	77.3	81.2	81.8	81.8	81.8	82.5	82.5	82.5	82.5	82.5	82.5
≥ 2000	59.7	74.7	78.6	82.5	83.1	83.1	83.1	84.4	84.4	84.4	84.4	84.4	84.4
≥ 1800	59.7	75.3	79.2	83.1	83.8	83.8	83.8	85.1	85.1	85.1	85.1	85.1	85.1
≥ 1500	61.0	77.9	81.8	85.7	86.4	86.4	86.4	87.7	87.7	87.7	87.7	87.7	87.7
≥ 1200	61.0	78.6	82.5	86.4	87.0	87.0	87.0	88.3	88.3	88.3	88.3	88.3	88.3
≥ 1000	63.0	81.2	85.1	89.0	89.6	89.6	89.6	90.3	91.6	91.6	91.6	91.6	91.6
≥ 900	63.0	81.2	85.1	89.0	89.6	89.6	89.6	90.3	91.6	91.6	91.6	91.6	91.6
≥ 800	64.3	85.1	89.0	92.9	93.5	93.5	93.5	94.2	95.5	95.5	95.5	95.5	95.5
≥ 700	64.3	85.1	89.0	92.9	93.5	93.5	93.5	94.2	95.5	95.5	95.5	95.5	95.5
≥ 600	64.3	85.7	89.6	93.5	94.8	94.8	94.8	95.5	96.8	96.8	96.8	96.8	96.8
≥ 500	64.3	85.7	89.6	93.5	94.8	94.8	94.8	95.5	97.4	98.1	98.1	98.1	98.1
≥ 400	64.3	86.4	90.3	94.2	96.1	96.1	96.1	96.8	98.7	99.4	99.4	99.4	99.4
≥ 300	64.3	86.4	90.3	94.2	96.1	96.1	96.1	96.8	98.7	99.4	99.4	99.4	99.4
≥ 200	64.3	86.4	90.3	94.2	96.1	96.1	96.1	96.8	98.7	99.4	99.4	99.4	99.4
≥ 100	64.3	86.4	90.3	94.2	96.1	96.1	96.1	96.8	98.7	99.4	99.4	99.4	99.4
≥ 0	64.3	86.4	90.3	94.2	96.1	96.1	96.1	96.8	98.7	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

154

CEILING VERSUS VISIBILITY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

DEC
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)19
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	33.6	61.9	63.9	67.1	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	68.4
≥ 20000	34.2	63.9	65.3	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	71.0
≥ 18000	34.2	63.9	65.3	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	71.0
≥ 16000	34.2	63.9	65.3	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	71.0
≥ 14000	34.8	64.5	66.5	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.6
≥ 12000	35.5	65.2	67.1	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	72.3
≥ 10000	35.5	65.2	67.1	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	72.3
≥ 9000	35.5	65.2	67.1	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	72.3
≥ 8000	36.1	68.4	70.3	74.2	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	76.1
≥ 7000	36.8	71.0	72.9	76.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.7
≥ 6000	36.8	71.6	73.6	77.4	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	79.4
≥ 5000	36.8	71.6	73.6	77.4	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	79.4
≥ 4500	36.8	71.6	73.6	77.4	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	79.4
≥ 4000	36.8	72.3	74.2	78.1	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	80.0
≥ 3500	36.8	72.3	74.2	78.1	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	80.0
≥ 3000	36.8	72.9	74.8	78.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.7
≥ 2500	37.4	74.2	76.1	80.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.9
≥ 2000	37.4	74.2	76.1	80.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	82.6
≥ 1800	37.4	74.2	76.1	80.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	82.6
≥ 1500	38.1	75.5	78.1	81.9	83.9	84.5	84.5	84.5	84.5	84.5	84.5	84.5	85.2
≥ 1200	38.7	76.8	79.4	83.2	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	87.1
≥ 1000	39.4	79.4	81.9	86.5	89.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.6
≥ 900	39.4	79.4	81.9	86.5	89.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.6
≥ 800	39.4	80.0	82.6	87.1	90.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	92.3
≥ 700	39.4	80.7	83.2	87.7	91.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.9
≥ 600	39.4	80.7	83.2	88.4	91.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	93.6
≥ 500	40.0	83.2	85.8	91.0	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	96.1
≥ 400	40.0	83.9	86.5	91.6	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.8
≥ 300	40.0	83.9	86.5	91.6	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	98.1
≥ 200	40.0	83.9	86.5	91.6	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	98.7
≥ 100	40.0	83.9	86.5	91.6	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	98.7
≥ 0	40.0	83.9	86.5	91.6	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	98.7

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

STATION
93117

STATION NAME
SAN CLEMENTE, CALIFORNIA

73-77

YEARS

DEC
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)
22

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2
NO CEILING	33.6	65.8	67.7	69.0	69.7	70.3	71.0	71.0	71.0	71.0	71.0	71.0
≥ 20000	35.5	69.0	71.0	72.3	72.9	73.6	74.2	74.2	74.2	74.2	74.2	74.2
≥ 18000	35.5	69.0	71.0	72.3	72.9	73.6	74.2	74.2	74.2	74.2	74.2	74.2
≥ 16000	35.5	69.0	71.0	72.3	72.9	73.6	74.2	74.2	74.2	74.2	74.2	74.2
≥ 14000	35.5	69.0	71.0	72.3	72.9	73.6	74.2	74.2	74.2	74.2	74.2	74.2
≥ 12000	35.5	69.0	71.0	72.3	72.9	73.6	74.2	74.2	74.2	74.2	74.2	74.2
≥ 10000	35.5	69.0	71.0	72.3	72.9	73.6	74.2	74.2	74.2	74.2	74.2	74.2
≥ 9000	35.5	69.0	71.0	72.3	72.9	73.6	74.2	74.2	74.2	74.2	74.2	74.2
≥ 8000	35.5	69.0	71.0	72.3	72.9	73.6	74.2	74.2	74.2	74.2	74.2	74.2
≥ 7000	35.5	69.0	71.0	72.3	72.9	73.6	74.2	74.2	74.2	74.2	74.2	74.2
≥ 6000	35.5	69.0	71.0	72.3	72.9	73.6	74.2	74.2	74.2	74.2	74.2	74.2
≥ 5000	35.5	69.0	71.0	72.3	72.9	73.6	74.2	74.2	74.2	74.2	74.2	74.2
≥ 4500	36.1	72.3	74.2	75.5	76.8	77.4	78.1	78.1	78.1	78.1	78.1	78.1
≥ 4000	36.1	72.3	74.2	75.5	76.8	77.4	78.1	78.1	78.1	78.1	78.1	78.1
≥ 3500	36.1	72.3	74.2	75.5	76.8	77.4	78.1	78.1	78.1	78.1	78.1	78.1
≥ 3000	36.1	72.3	74.2	75.5	76.8	77.4	78.1	78.1	78.1	78.1	78.1	78.1
≥ 2500	36.1	72.3	74.2	75.5	76.8	77.4	78.1	78.1	78.1	78.1	78.1	78.1
≥ 2000	36.8	75.5	77.4	80.0	81.3	81.9	82.6	82.6	82.6	82.6	82.6	82.6
≥ 1800	38.1	78.7	80.7	84.5	86.5	87.7	88.4	88.4	88.4	88.4	88.4	88.4
≥ 1500	38.1	78.7	80.7	84.5	86.5	87.7	88.4	88.4	88.4	88.4	88.4	88.4
≥ 1200	38.1	78.7	80.7	84.5	86.5	87.7	88.4	88.4	88.4	88.4	88.4	88.4
≥ 1000	38.1	78.7	80.7	84.5	86.5	87.7	88.4	88.4	88.4	88.4	88.4	88.4
≥ 900	38.1	78.7	80.7	84.5	86.5	87.7	88.4	88.4	88.4	88.4	88.4	88.4
≥ 800	38.1	78.7	80.7	84.5	86.5	87.7	88.4	88.4	88.4	88.4	88.4	88.4
≥ 700	38.1	78.7	80.7	84.5	86.5	87.7	88.4	88.4	88.4	88.4	88.4	88.4
≥ 600	38.1	78.7	80.7	84.5	86.5	87.7	88.4	88.4	88.4	88.4	88.4	88.4
≥ 500	38.1	78.7	80.7	84.5	86.5	87.7	88.4	88.4	88.4	88.4	88.4	88.4
≥ 400	38.1	78.7	80.7	84.5	86.5	87.7	88.4	88.4	88.4	88.4	88.4	88.4
≥ 300	38.1	78.7	80.7	84.5	86.5	87.7	88.4	88.4	88.4	88.4	88.4	88.4
≥ 200	38.1	78.7	80.7	84.5	86.5	87.7	88.4	88.4	88.4	88.4	88.4	88.4
≥ 100	38.1	78.7	80.7	84.5	86.5	87.7	88.4	88.4	88.4	88.4	88.4	88.4
≥ 0	38.1	78.7	80.7	84.5	86.5	87.7	88.4	88.4	88.4	88.4	88.4	88.4

TOTAL NUMBER OF OBSERVATIONS

155

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION NAME
SAN CLEMENTE, CALIFORNIA

73-77

YEARS

DEC

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE

(FROM HOURLY OBSERVATIONS)

ALL

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING	38.6	61.3	63.9	65.5	66.3	66.3	66.7	67.0	67.0	67.2	67.2
≥ 20000	39.6	64.3	67.3	69.0	69.9	70.0	70.5	70.8	70.8	70.9	71.0
≥ 18000	39.6	64.4	67.4	69.1	70.1	70.1	70.6	70.9	70.9	71.1	71.2
≥ 16000	39.7	64.5	67.5	69.2	70.1	70.2	70.7	71.0	71.0	71.2	71.3
≥ 14000	40.3	65.1	68.0	69.8	70.8	70.9	71.4	71.7	71.7	71.8	71.9
≥ 12000	40.6	65.4	68.4	70.1	71.1	71.2	71.7	72.0	72.0	72.2	72.2
≥ 10000	40.9	65.9	68.9	70.7	71.7	71.8	72.2	72.6	72.6	72.8	72.8
≥ 9000	41.1	66.2	69.2	70.9	71.9	72.0	72.5	72.8	72.8	73.0	73.1
≥ 8000	41.6	67.3	70.3	72.1	73.2	73.3	73.8	74.1	74.1	74.3	74.3
≥ 7000	41.7	68.0	71.0	72.8	73.9	74.0	74.5	74.8	74.8	75.0	75.1
≥ 6000	41.8	68.3	71.3	73.1	74.3	74.3	74.8	75.1	75.1	75.3	75.4
≥ 5000	41.9	68.7	71.7	73.6	74.7	74.8	75.3	75.6	75.6	75.8	75.9
≥ 4500	42.0	68.8	71.8	73.7	74.8	74.9	75.4	75.7	75.7	75.9	76.0
≥ 4000	42.0	69.1	72.1	74.0	75.1	75.2	75.7	76.0	76.0	76.2	76.3
≥ 3500	42.1	69.2	72.2	74.1	75.2	75.3	75.8	76.1	76.1	76.3	76.4
≥ 3000	42.4	69.7	72.6	74.7	76.0	76.0	76.5	76.9	76.9	77.1	77.2
≥ 2500	42.8	71.2	74.3	76.6	77.8	77.9	78.4	78.8	78.9	79.1	79.2
≥ 2000	43.6	73.0	76.3	78.9	80.2	80.3	80.9	81.4	81.4	81.6	81.7
≥ 1800	43.7	73.4	76.8	79.3	80.6	80.8	81.4	81.9	81.9	82.2	82.2
≥ 1500	45.0	76.0	79.7	82.4	83.8	84.0	84.8	85.2	85.2	85.6	85.7
≥ 1200	45.4	77.4	81.2	84.1	85.6	86.0	86.7	87.3	87.3	87.7	87.8
≥ 1000	46.0	79.6	83.5	86.8	88.5	88.9	89.7	90.3	90.3	90.8	90.9
≥ 900	46.0	79.7	83.6	86.8	88.6	89.0	89.8	90.5	90.5	91.0	91.0
≥ 800	46.3	81.1	85.2	88.5	90.5	90.9	91.6	92.5	92.5	93.0	93.1
≥ 700	46.3	81.7	85.8	89.1	91.0	91.4	92.3	93.1	93.1	93.5	93.6
≥ 600	46.3	82.1	86.2	89.8	91.9	92.3	93.2	94.0	94.0	94.4	94.5
≥ 500	46.5	83.1	87.3	91.0	93.1	93.5	94.6	95.4	95.4	96.0	96.1
≥ 400	46.5	83.4	87.8	91.6	93.8	94.2	95.6	96.4	96.4	96.9	97.0
≥ 300	46.5	83.4	87.9	91.8	94.0	94.4	95.7	96.7	96.8	97.3	97.4
≥ 200	46.5	83.4	87.9	91.8	94.0	94.4	96.0	96.9	97.0	97.6	97.9
≥ 100	46.5	83.4	87.9	91.8	94.0	94.4	96.0	96.9	97.0	97.6	97.9
0	46.5	83.4	87.9	91.8	94.0	94.4	96.0	96.9	97.0	97.6	97.9

TOTAL NUMBER OF OBSERVATIONS

1239

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

93117 STATION
 SAN CLEMENTE, CALIFORNIA
 73-77 YEARS
 ALL MONTH
 ALL HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼
NO CEILING	29.9	45.8	47.6	46.3	48.7	48.8	49.0	49.1	49.1	49.4	49.4	49.5	49.5
≥ 20000	31.1	47.9	49.7	50.5	51.0	51.0	51.3	51.4	51.4	51.6	51.7	51.8	51.9
≥ 18000	31.1	48.0	49.8	50.6	51.1	51.1	51.3	51.5	51.5	51.7	51.8	51.9	52.0
≥ 16000	31.2	48.0	49.8	50.6	51.1	51.1	51.4	51.5	51.5	51.7	51.8	51.9	52.0
≥ 14000	31.3	48.2	50.0	50.8	51.3	51.3	51.6	51.7	51.7	52.0	52.0	52.2	52.4
≥ 12000	31.5	48.5	50.4	51.1	51.6	51.7	51.9	52.0	52.0	52.3	52.4	52.5	52.7
≥ 10000	31.8	48.9	50.8	51.6	52.2	52.2	52.4	52.6	52.6	52.8	52.9	53.0	53.3
≥ 9000	31.9	49.0	50.9	51.7	52.3	52.3	52.5	52.7	52.7	52.9	53.0	53.1	53.3
≥ 8000	32.2	49.6	51.5	52.3	52.9	52.9	53.2	53.3	53.3	53.5	53.6	53.7	54.0
≥ 7000	32.3	49.9	51.9	52.7	53.2	53.3	53.5	53.6	53.6	53.9	54.0	54.1	54.3
≥ 6000	32.4	50.0	52.0	52.8	53.4	53.4	53.6	53.9	53.9	54.0	54.1	54.2	54.5
≥ 5000	32.6	50.3	52.2	53.1	53.6	53.7	53.9	54.0	54.0	54.3	54.4	54.5	54.7
≥ 4500	32.7	50.4	52.3	53.2	53.7	53.7	54.0	54.1	54.1	54.4	54.4	54.6	54.8
≥ 4000	33.0	51.1	53.1	53.9	54.5	54.5	54.7	54.9	54.9	55.1	55.2	55.3	55.6
≥ 3500	33.3	51.5	53.5	54.3	54.8	54.9	55.1	55.3	55.3	55.5	55.6	55.7	56.0
≥ 3000	34.0	52.4	54.4	55.3	55.8	55.9	56.1	56.3	56.3	56.5	56.6	56.7	57.0
≥ 2500	35.0	54.1	56.2	57.1	57.6	57.7	57.9	58.1	58.1	58.3	58.4	58.5	58.8
≥ 2000	36.7	56.7	58.9	59.8	60.4	60.4	60.7	60.9	60.9	61.1	61.2	61.3	61.5
≥ 1800	37.3	57.6	59.9	60.9	61.4	61.5	61.7	61.9	61.9	62.2	62.2	62.4	62.6
≥ 1500	39.8	62.5	65.1	66.2	66.8	66.9	67.2	67.3	67.3	67.6	67.7	67.8	68.0
≥ 1200	41.6	66.7	69.7	70.9	71.6	71.7	72.0	72.2	72.2	72.4	72.5	72.6	72.9
≥ 1000	43.4	72.0	75.4	77.0	77.9	78.0	78.3	78.5	78.5	78.8	78.9	79.0	79.2
≥ 900	43.9	73.6	77.4	79.1	80.1	80.2	80.5	80.7	80.7	81.0	81.1	81.2	81.3
≥ 800	44.8	76.4	80.7	82.8	84.0	84.1	84.5	84.7	84.7	85.0	85.1	85.2	85.5
≥ 700	45.3	78.4	83.2	85.6	87.0	87.1	87.6	87.8	87.8	88.1	88.2	88.3	88.6
≥ 600	45.6	80.0	85.4	88.4	90.1	90.2	90.9	91.1	91.1	91.4	91.5	91.6	91.9
≥ 500	45.8	81.1	86.9	90.3	92.5	92.7	93.7	94.0	94.0	94.4	94.5	94.6	94.9
≥ 400	45.9	81.5	87.6	91.2	93.9	94.1	95.4	95.9	95.9	96.3	96.4	96.5	96.8
≥ 300	45.9	81.7	87.8	91.6	94.4	94.7	96.2	96.9	96.9	97.5	97.6	97.8	98.2
≥ 200	45.9	81.7	87.8	91.6	94.5	94.7	96.3	97.1	97.2	97.9	98.1	98.4	98.9
≥ 100	45.9	81.7	87.9	91.6	94.5	94.8	96.3	97.2	97.3	98.1	98.4	98.8	99.6
≥ 0	45.9	81.7	87.9	91.6	94.5	94.8	96.3	97.2	97.3	98.1	98.4	98.8	99.1

TOTAL NUMBER OF OBSERVATIONS 14607

PLAN
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

5704 SKY COVER JAN 68

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JAN	01	40.0	3.2	7.1	5.2	3.2	5.2	2.6	2.6	6.5		24.5	4.0	155
	04	37.4	5.2	7.7	8.4	4.5	3.9	2.6	3.9	3.9	1.9	20.6	3.8	155
	07	22.6	6.5	9.7	10.3	6.5	7.1	1.9	3.2	5.8	3.9	22.6	4.6	155
	10	23.2	8.4	9.0	3.9	3.9	5.8	5.2	5.8	6.5	6.5	21.9	4.8	155
	13	23.2	5.2	9.7	6.5	7.7	3.9	2.6	6.5	9.0	8.4	17.4	4.8	155
	16	21.3	7.1	9.0	5.2	4.5	3.2	9.0	7.1	7.1	5.8	20.6	4.9	155
	19	25.8	9.0	7.7	9.0	3.9	4.5	3.9	3.9	7.1	2.6	22.6	4.5	155
	22	35.5	5.2	7.7	8.4	5.2	1.9	3.2	5.2	9.0	3.9	14.8	3.9	155
TOTALS		28.6	6.2	8.5	7.1	6.0	6.4	3.9	4.8	6.9	4.1	2.6	4.4	1240

MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
FEB	01	34.8	3.5	4.3	11.3	6.4	2.1	2.1	3.5	7.1	.7	24.1	4.2	141
	04	32.6	5.0	7.1	6.4	5.7	4.3	3.5	3.5	2.1	3.5	26.2	4.4	141
	07	18.4	4.3	7.1	5.0	5.7	3.5	2.8	5.0	12.8	8.5	27.0	5.7	141
	10	18.4	5.7	5.0	2.8	8.5	5.7	6.4	5.0	12.8	6.4	23.4	5.5	141
	13	19.9	4.3	7.8	7.1	7.1	6.4	4.3	.7	11.3	5.7	25.5	5.3	141
	16	18.4	9.2	3.5	7.8	7.1	2.8	2.1	3.5	14.2	7.8	23.4	5.4	141
	19	23.4	7.8	11.3	7.8	7.8	2.8	2.8	5.0	5.7	.7	24.8	4.5	141
	22	29.1	7.8	8.5	7.8	7.1	2.1	1.4	3.5	4.3	1.4	27.0	4.4	141
TOTALS		24.4	6.0	6.8	7.0	6.9	3.7	3.2	3.7	8.8	4.3	25.2	4.9	1128

MAR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
MAR	01	37.4	3.9	8.4	4.5	5.8	3.9	3.2	1.9	5.2	3.2	22.6	4.1	155
	04	34.8	5.2	8.4	5.8	6.5	3.9	1.2	3.9	5.8		24.5	4.1	155
	07	21.3	5.2	4.5	5.2	5.2	5.8	4.5	5.6	9.7	6.4	24.5	5.5	155
	10	20.0	7.7	3.2	5.2	5.2	1.9	5.2	8.4	10.3	9.0	23.9	5.5	155
	13	21.3	5.2	8.4	3.2	3.2	3.9	7.7	6.5	10.3	6.5	23.9	5.3	155
	16	20.0	5.8	5.2	7.1	7.1	4.5	3.9	5.2	14.2	4.5	22.6	5.3	155
	19	20.6	6.5	8.4	3.9	10.3	3.2	3.2	5.8	11.0	4.5	22.6	5.1	155
	22	36.1	5.8	5.2	6.5	5.2	3.2	3.2	3.9	9.0	3.2	16.7	4.1	155
TOTALS		26.4	5.7	6.5	5.2	6.1	5.8	4.0	5.2	9.4	4.9	22.9	4.9	1240

APR
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
APR	01	40.7	3.3	4.7	6.0	2.7	1.3	2.0	4.0	4.0	4.0	27.3	4.3	150
	04	34.0	3.3	4.0	6.0	4.0	3.3	1.3	2.7	5.3	.7	35.3	4.9	150
	07	17.3	4.0	5.3	5.3	3.3	2.0	6.0	6.0	9.3	7.3	34.0	6.1	150
	10	23.3	4.7	6.0	6.7	5.3	3.3	4.0	6.0	6.0	7.3	27.3	5.3	150
	13	28.0	4.0	6.7	9.3	3.3	4.0	6.0	2.7	8.0	6.7	21.3	4.7	150
	16	26.7	9.3	6.0	6.0	4.0	2.7	6.7	6.0	7.3	4.0	19.3	4.4	150
	19	22.7	8.0	11.3	8.7	5.3	3.3	2.7	4.7	4.0	4.0	25.3	4.6	150
	22	38.7	4.7	8.0	8.0	2.0	.7	2.7	3.3	4.7	.7	26.7	4.1	150
TOTALS		202	5.2	6.5	7.0	3.7	2.6	3.9	4.4	6.1	4.3	27.1	4.8	1200

SKY COVER

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

PERIOD

MAY
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
MAY	01	18.7	3.2	6.5	5.2	1.9	1.3	.6	1.3	1.3	3.9	56.1	6.7	155
	04	13.5	.6	2.6	3.9	4.5	2.6	3.2	3.2	4.5	3.9	57.4	7.4	155
	07	5.8	3.2	1.9	3.2	1.9	1.3	1.3	3.9	14.8	5.2	57.4	8.1	155
	10	7.1	2.6	4.5	5.2	2.6	5.2	4.5	7.1	9.0	3.2	49.0	7.3	155
	13	9.7	6.5	4.5	8.4	5.8	5.2	6.5	7.7	6.5	5.2	34.2	6.2	155
	16	13.5	3.2	2.6	11.6	2.6	2.6	7.1	5.8	9.0	5.8	36.1	6.4	155
	19	9.7	4.5	8.4	7.1	5.8	2.6	4.5	3.9	5.2	4.5	43.9	6.5	155
	22	20.6	3.2	5.8	3.9	3.2	.6	3.2	5.2	3.9	2.6	47.7	6.3	155
TOTALS		12.3	3.4	4.6	6.1	3.5	2.7	3.9	4.8	6.8	4.3	47.7	6.9	1240

SKY COVER

93117 STATION SAN CLEMENTE, CALIFORNIA

73-77

PERIOD

JUN
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10	
JUN	01	21.3	1.3	3.3	3.3	3.3	2.0	4.0	1.3	1.3	4.7	54.0	6.7 150
	04	15.3	1.3	3.3	2.0	3.3		2.0	2.0	6.0	3.3	61.3	7.4 150
	07	10.7	1.3	2.0	.7	4.7	1.3	1.3	3.3	4.0	6.7	64.0	6.0 150
	10	12.7	1.3	4.0	3.3	2.0	3.3	4.7	2.7	12.0	6.7	47.3	7.2 150
	13	18.0	6.0	2.0	3.3	4.7	4.0	6.7	8.0	7.3	6.0	34.0	6.1 150
	16	19.3	4.7	3.3	3.3	6.0	3.3	2.0	7.3	8.7	6.0	34.0	6.1 150
	19	20.0	6.7	2.7	2.7	3.3	2.7	2.0	.7	3.3	6.7	49.3	6.4 150
	22	21.3	4.0	3.3	1.3	4.7	2.0	2.0	1.3	3.3	2.7	54.0	6.6 150
TOTALS		17.3	3.3	3.0	2.5	4.0	2.3	3.1	3.3	5.7	5.6	49.7	6.8 1200

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JUL	01	12.9	1.9	1.9	3.9	3.2	2.6	.6	.6	4.5	1.9	65.8	7.6	155
	04	9.7	.6	.6	2.6	1.9	.6		3.9	5.2	5.2	69.7	8.3	155
	07	7.7	1.9	1.3	1.3	.6	.6		1.9	4.5	7.1	72.9	8.6	155
	10	9.7	.6	5.2	1.9	3.2	4.5	5.8	5.2	9.7	7.1	47.1	7.4	155
	13	9.7	3.9	9.0	7.1	7.1	6.5	2.6	5.8	7.7	10.3	30.3	6.2	155
	16	12.3	5.2	6.5	3.9	5.2	5.8	3.2	6.5	7.1	7.7	36.8	6.4	155
	19	11.6	.6	4.5	2.6	3.9	3.2	2.6	5.8	9.7	3.9	51.6	7.3	155
	22	15.5	3.9	.6	3.2	3.9	2.6	2.6	1.9	5.2	5.2	55.5	7.1	155
TOTALS		11.1	2.3	3.7	3.3	3.6	3.3	2.2	4.0	6.7	6.1	53.7	7.4	1240

SKY COVER

d

93117 SAN CLEMENTE, CALIFORNIA

73-77

AUG

MONTH

PERIOD

STATION NAME

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10	
AUG	01	12.9	1.9	3.9	3.2	2.6	2.6	2.6	2.6	5.2	2.6	60.0	155
	04	9.0	1.3	1.3	3.2	1.9	1.3	3.2	2.6	2.6	5.2	66.4	155
	07	4.5	.6	.6	2.6		1.9	3.9	6.5	6.5	1.9	71.0	155
	10	7.7	2.6	1.9	1.3	2.6	3.9	3.2	6.5	9.0	10.3	51.0	155
	13	14.2	5.8	5.8	4.5	7.1	4.5	7.7	6.5	8.4	11.0	24.5	155
	16	19.4	7.1	6.5	5.2	4.5	3.9	4.5	7.1	10.3	7.7	23.9	155
	19	11.0	1.9	3.9	5.2	3.9	3.9	5.2	3.9	6.5	9.7	45.2	155
	22	16.1	1.9	3.2	3.2	1.9	3.9	1.9	3.2	5.2	3.9	55.5	155
TOTALS		11.9	2.9	3.4	3.6	3.1	3.2	4.0	4.9	6.7	6.5	49.9	7.2 1240

NAVWEASERVCOM

5704 SKY COVER JAN 68

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SEP
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

5704 SKY COVER JAN 68

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
SEP	01	18.7	4.0	2.7	1.3	5.3	1.3	2.0	3.3	2.7	1.3	57.3	6.8	150
	04	14.7	2.0	8.0	.7	2.0	.7	1.3	1.3	2.7	2.0	64.7	7.3	150
	07	4.7	2.0	2.0	3.3	2.0	2.7	3.3	3.3	2.0	8.7	66.0	8.3	150
	10	8.0	4.0	1.3	4.7	2.0	4.0	4.0	5.3	13.3	5.3	48.0	7.4	150
	13	13.3	4.0	3.3	4.0	4.0	7.3	5.3	10.0	9.3	8.7	30.7	6.4	150
	16	16.7	4.0	2.7	7.3	4.0	6.7	3.3	6.0	8.7	6.0	34.7	6.1	150
	19	14.7	4.0	5.3	4.0	3.3	4.7	4.7	3.3	5.3	5.3	45.3	6.6	150
	22	23.3	6.0	2.7	4.7	2.0	1.3	3.3	5.3	5.3	4.7	41.3	6.0	150
TOTALS		14.3	3.8	3.5	3.8	3.1	3.6	3.4	4.7	6.2	5.3	48.5	6.9	1200

SKY COVER

d

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

PERIOD

OCT
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10	
OCT	01	31.0	1.9	5.8	1.9	7.7	2.6	5.2	5.8	3.2	3.9	31.0	155
	04	28.4	3.9	4.5	3.9	2.6	1.3	4.5	1.9	7.7	5.2	36.1	155
	07	16.8	1.9	5.2	1.9	5.2	3.9	3.9	4.5	14.2	9.7	32.9	155
	10	17.4	4.5	7.7	7.7	3.9	8.4	2.6	6.5	6.5	11.0	23.9	155
	13	18.1	7.1	12.9	7.7	3.9	4.5	7.1	5.2	9.0	10.3	14.2	155
	16	26.5	5.8	7.7	7.1	3.9	3.9	3.2	6.5	6.5	9.0	20.0	155
	19	27.1	4.5	6.5	6.5	4.5	3.9	4.5	4.5	7.7	4.5	25.8	155
	22	36.1	3.2	7.1	3.9	3.2	2.6	5.8	2.6	7.7	1.9	25.8	155
TOTALS		25.2	4.1	7.2	5.1	4.4	3.9	4.6	4.7	7.8	6.9	26.2	1240

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5704 SKY COVER JAN 68

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SKY COVER

93117
STATION

SAN CLEMENTE, CALIFORNIA

71-77

PERIOD

NOV
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10	
NOV	01	42.7	4.7	7.3	4.7	2.7	.7	6.0	2.0	6.0	2.0	19.3	3.7 150
	04	43.3	2.7	8.0	7.3	4.7	.7	4.7	6.0	6.7	.7	15.3	3.5 150
	07	24.0	3.3	10.7	6.7	4.0	3.3	7.3	6.7	10.0	3.3	20.7	4.8 150
	10	29.3	3.3	8.7	6.7	4.0	4.7	7.3	6.7	8.7	4.7	16.0	4.4 150
	13	28.0	8.7	8.0	6.0	4.7	4.7	2.7	7.3	12.0	5.3	12.7	4.2 150
	16	25.3	6.7	10.7	6.7	4.0	5.3	6.7	7.3	6.0	4.0	17.3	4.4 150
	19	32.0	5.3	6.7	10.0	6.0	5.3	4.7	4.0	5.3	1.3	19.3	4.0 150
	22	42.7	4.7	8.0	6.7	6.7		6.0	2.7	4.7	2.7	15.3	3.4 150
TOTALS		33.4	4.9	8.5	6.9	4.6	3.1	5.7	5.3	7.7	3.0	17.0	4.1 1200

73-77

PERIOD

MONTH
DEC

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

5704 SKY COVER JAN 68

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
DEC	01	44.5	4.5	4.5	7.1	1.9	1.9	1.3	2.6	7.1	1.9	22.6	3.8	155
	04	42.6	5.2	3.2	7.1	3.9	1.9	3.2	3.2	4.5	3.9	21.3	3.6	155
	07	24.5	5.2	11.6	8.4	3.9	2.6	5.8	3.2	7.1	7.1	20.6	4.7	155
	10	21.9	3.9	8.4	7.1	4.5	7.1	2.6	4.5	9.0	8.4	22.6	5.2	155
	13	22.6	5.2	11.0	7.7	3.2	3.9	1.9	7.7	7.7	5.8	23.2	4.9	155
	16	25.3	7.8	8.4	7.1	2.6	4.5	6.5	4.5	3.2	2.6	27.3	4.7	154
	19	31.0	11.0	9.7	3.2	5.8	1.3	7.7	3.2	5.2	2.6	19.4	4.0	155
	22	38.1	5.8	7.7	8.4	4.5	.6	2.6	2.6	7.7	.6	21.3	3.8	155
TOTALS		31.3	6.1	8.1	7.0	3.8	3.0	4.0	3.9	6.4	4.1	22.3	4.4	1239

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NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C
SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE (SMOS), SAN CLE--ETC(U)
JUL 78

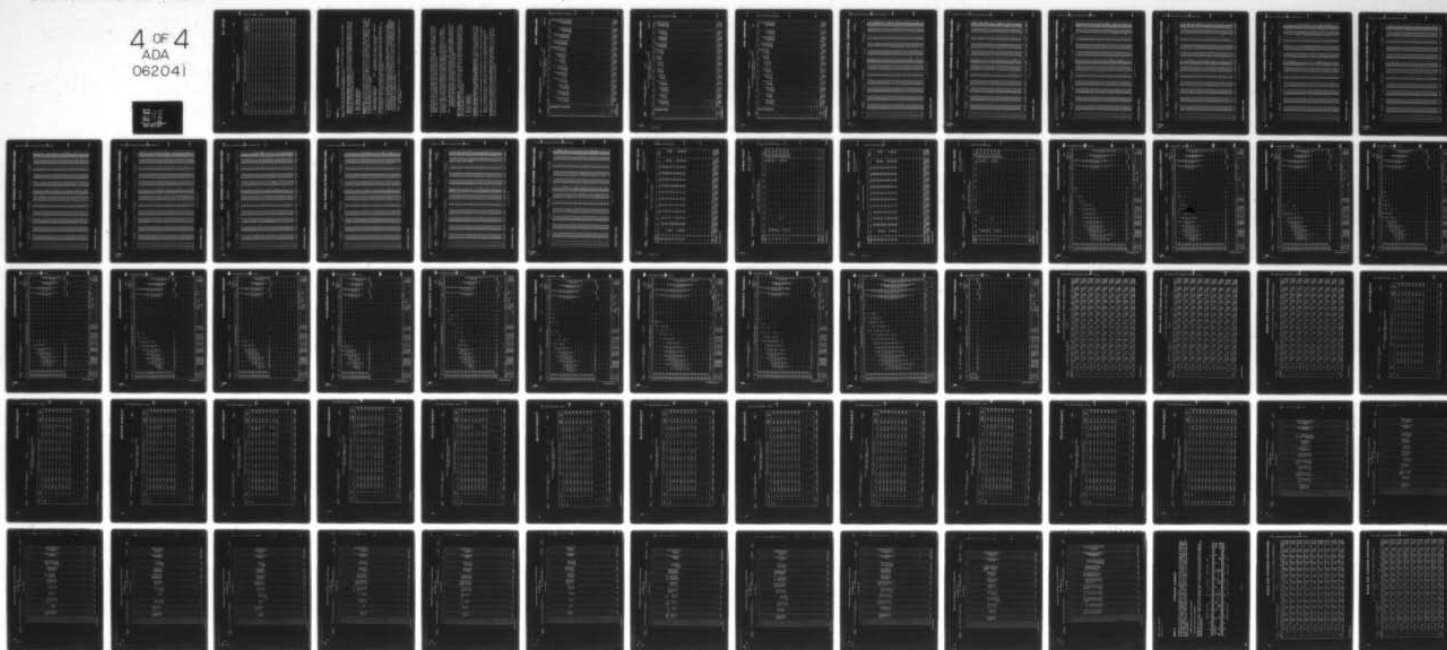
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SKY COVER

5704 SKY COVER JAN 68

93117 STATION SAN CLEMENTE, CALIFORNIA 73-77 PERIOD ALL MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JAN	ALL	28.5	6.2	8.5	7.1	4.9	4.4	3.9	4.8	6.9	4.1	20.6	4.4	1240
FEB		24.4	6.0	6.8	7.0	6.9	3.7	3.2	3.7	8.8	4.3	25.2	4.9	1128
MAR		26.4	5.7	6.5	5.2	6.1	3.8	4.0	5.2	9.4	4.9	22.9	4.9	1240
APR		29.2	5.2	6.5	7.0	3.7	2.6	3.9	4.4	6.1	4.3	27.1	4.8	1200
MAY		12.3	3.4	4.6	6.1	3.5	2.7	3.9	4.8	6.8	4.3	47.7	6.9	1240
JUN		17.3	3.3	3.0	2.5	4.0	2.3	3.1	3.3	5.7	5.6	49.7	6.8	1200
JUL		11.1	2.3	3.7	3.3	3.6	2.3	2.2	4.0	6.7	6.1	53.7	7.4	1240
AUG		11.9	2.9	3.4	3.6	3.1	3.2	4.0	4.9	6.7	6.5	46.9	7.2	1240
SEP		14.3	3.8	3.5	3.8	3.1	3.6	3.4	4.7	6.2	5.3	48.5	6.9	1200
OCT		25.2	4.1	7.2	5.1	4.4	3.9	4.6	4.7	7.8	6.9	26.2	5.2	1240
NOV		33.4	4.9	8.5	6.9	4.6	3.1	5.7	5.3	7.7	3.0	17.0	4.1	1200
DEC		31.3	6.1	8.1	7.0	3.8	3.0	4.0	3.9	6.4	4.1	22.3	4.4	1239
TOTALS		22.1	4.5	5.9	5.4	4.3	3.3	3.8	4.5	7.1	5.0	34.2	5.7	14607

PART E PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentation follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviation, and total number of observations in three separate tables as follows:
 - a. Daily maximum temperature
 - b. Daily minimum temperature
 - c. Daily mean temperature
2. Extreme values - derived from daily observations with extreme value given for each year and month of record available. Extremes are provided for a month if all days for a month contain valid observations. All months for a year must have valid extremes before the ANNUAL value is selected for that year. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extreme temperatures are prepared:
 - a. Extreme maximum temperature
 - b. Extreme minimum temperature

NOTE: A supplementary list also provides extreme temperatures when less than a full month is reported.
3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and all years combined. The following information is provided:
 - a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature vertically. Also provided for each dry-bulb temperature interval is the total no. of observations with dry-bulb and wet-bulb temperatures combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may require two pages in some cases.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ($\sum X^2$), sums of values ($\sum X$), means (\bar{X}), and standard deviations (σx). The number of observations used in the computations for each element is also shown.

c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulations by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:

- a. Dry-bulb temperature
- b. Wet-bulb temperature
- c. Dew-point temperature

5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.

- a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
- b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

6. Percentage frequency of occurrence of dry-bulb temperature versus wind direction - This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The main body of the summary consists of dry bulb temperatures spread vertically in four degree increments and horizontally by eight wind directions (plus calm).

DAILY TEMPERATURES

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

63-77

YEARS

MAXIMUM

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
100									.2				.0
95									.4				.0
90						.2			1.2	1.5	.2		.3
85					.2				2.4	3.2	.7		.7
80	.2	.3		.7	.2		.2	.4	4.9	4.9	1.3		1.5
75	3.7	1.8	.9	2.0	1.9	1.1	7.1	2.2	11.6	12.0	4.4	.3	5.5
70	9.1	5.8	4.8	6.9	4.3	13.1	33.8	15.5	50.4	38.3	16.9	6.5	21.4
65	21.1	19.2	18.9	26.2	25.6	58.9	89.9	59.8	94.4	86.5	55.8	22.5	52.7
60	60.2	67.4	69.7	82.9	89.5	99.1	100.0	100.0	100.0	99.6	95.6	75.5	87.3
55	96.6	99.7	99.8	100.0	100.0	100.0				100.0	99.3	97.5	99.5
50	100.0	100.0	100.0								100.0	99.8	100.0
45												100.0	100.0
40													
35													
30													
25													
20													
15													
10													
5													
0													
MEAN	61.6	61.7	61.7	62.8	63.2	65.8	68.5	70.7	70.2	69.4	65.7	62.2	65.3
S. D.	5.305	4.175	3.923	4.287	3.598	3.796	3.585	3.623	5.040	5.408	4.754	4.129	5.521
TOTAL OBS.	407	396	433	450	463	450	465	463	450	465	450	400	5296

NAVWEASERVCOM

5721 Daily Temperatures Jan 1983

DAILY TEMPERATURES

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

STATION NAME

63-77

YEARS

MINIMUM

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

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NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

5725 DAILY AVERAGE/EXTREME TEMP MAR 1978

93117

SAN CLEMENTE, CALIFORNIA

1964-1977

JANUARY

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP			MINIMUM TEMP			DATE
	AVERAGE ° F	AVERAGE ° C	AVERAGE ° F	EXTREME ° F	EXTREME ° C	AVERAGE ° F	EXTREME ° F	EXTREME ° C	
1	54.8	12.7	60.8	71	21.7	48.8	36	9.3	1969
2	53.7	12.1	60.7	65	18.3	46.8	36	8.2	1975
3	53.5	11.9	60.6	67	19.4	46.5	39	8.1	1975*
4	54.5	12.5	60.6	75	23.9	48.3	38	9.1	1969
5	53.5	11.9	60.5	72	22.2	46.5	39	8.1	1969
6	53.6	12.0	60.3	65	18.3	46.9	42	8.3	1975
7	54.0	12.2	59.8	67	19.4	48.1	43	8.9	1970
8	53.9	12.2	59.3	65	18.3	48.4	42	9.1	1975
9	53.8	12.1	59.2	64	17.8	48.4	42	9.1	1975
10	55.3	12.9	61.4	72	22.2	49.3	43	9.6	1967
11	54.3	12.4	60.4	71	21.7	48.3	42	9.1	1967
12	55.7	13.2	62.3	78	25.6	49.1	43	9.5	1975
13	56.5	13.6	63.6	84	28.9	49.4	44	9.7	1975
14	57.0	13.9	63.8	79	26.1	50.3	44	10.2	1975
15	57.6	14.2	64.1	74	23.3	51.0	46	10.6	1976
16	58.0	14.4	63.7	79	26.1	52.4	46	11.3	1976
17	58.1	14.5	64.4	79	26.1	51.9	47	11.1	1965
18	58.2	14.6	63.9	76	24.4	52.5	49	11.4	1977
19	57.6	14.2	63.1	77	25.0	52.1	46	11.2	1975
20	56.6	13.7	61.5	77	25.0	51.7	47	10.9	1976
21	55.7	13.2	60.1	72	22.2	51.3	44	10.7	1976
22	55.8	13.2	61.7	76	24.4	49.9	45	9.9	1976
23	56.0	13.3	61.5	76	24.4	50.4	46	10.2	1968
24	55.9	13.3	61.6	75	23.9	50.1	44	10.1	1968
25	55.1	12.8	60.3	67	19.4	49.9	45	9.9	1977*
26	55.0	12.8	59.9	67	19.4	50.1	45	10.1	1977
27	56.1	13.4	62.3	76	24.4	49.9	45	9.9	1971
28	56.9	13.8	63.0	76	24.4	50.7	43	10.4	1971
29	55.6	13.1	61.6	73	22.8	49.6	45	9.8	1971
30	54.9	12.7	60.5	67	19.4	49.4	39	9.7	1965
31	54.9	12.7	60.1	65	18.3	49.6	39	9.8	1964
Monthly	55.6	13.1	61.6	84	28.9	49.7	36	9.8	1975

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

5725 DAILY AVERAGE/EXTREME TEMP MAR 1977

STATION
93117

SAN CLEMENTE, CALIFORNIA

1964-1977

FEBRUARY

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		AVERAGE		MAXIMUM TEMP		EXTREME		AVERAGE		MINIMUM TEMP		DATE
	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	
1	54.7	12.6	59.4	15.2	65	18.3	65	18.3	50.1	10.1	43	6.1	1975
2	55.9	13.3	61.2	16.2	67	19.4	67	19.4	50.6	10.3	44	6.7	1975*
3	56.8	13.8	62.6	17.0	68	20.0	68	20.0	51.0	10.6	47	8.3	1972*
4	57.1	13.9	62.9	17.2	73	22.8	73	22.8	51.2	10.7	46	7.8	1971
5	55.6	13.1	60.1	15.6	65	18.3	65	18.3	51.0	10.6	46	7.8	1971
6	55.9	13.3	60.6	15.9	66	18.9	66	18.9	51.1	10.6	49	9.4	1976*
7	55.5	13.1	60.2	15.7	67	19.4	67	19.4	50.7	10.4	48	8.9	1965
8	56.1	13.4	61.3	16.3	69	20.6	69	20.6	50.9	10.5	47	8.3	1969
9	57.0	13.9	61.9	16.6	73	22.8	73	22.8	52.1	11.2	50	10.0	1972*
10	56.4	13.6	62.4	16.9	72	22.2	72	22.2	50.5	10.3	44	6.7	1972
11	57.5	14.2	63.6	17.6	78	25.6	78	25.6	51.4	10.8	46	7.8	1965
12	57.4	14.1	63.1	17.3	80	26.7	80	26.7	51.6	10.9	47	8.3	1965
13	56.8	13.8	61.9	16.6	75	23.9	75	23.9	51.6	10.9	46	7.8	1974
14	54.9	12.7	59.6	15.3	64	17.8	64	17.8	50.1	10.1	43	6.1	1974
15	55.6	13.1	61.2	16.2	69	20.6	69	20.6	50.1	10.1	45	7.2	1972
16	55.8	13.2	61.2	16.2	70	21.1	70	21.1	50.4	10.2	47	8.3	1966
17	56.6	13.7	61.6	16.4	68	20.0	68	20.0	51.6	10.9	48	8.9	1966*
18	56.2	13.4	62.1	16.7	71	21.7	71	21.7	50.4	10.2	43	6.1	1974
19	57.1	13.9	62.7	17.1	78	25.6	78	25.6	51.5	10.8	44	6.7	1975
20	56.8	13.8	62.3	16.8	70	21.1	70	21.1	51.4	10.8	49	9.4	1967
21	55.9	13.3	62.0	16.7	70	21.1	70	21.1	49.8	9.9	45	7.2	1974
22	56.6	13.7	62.2	16.8	70	21.1	70	21.1	51.0	10.6	46	7.8	1975*
23	56.6	13.7	62.3	16.8	67	19.4	67	19.4	50.9	10.5	43	6.1	1974
24	57.0	13.9	62.3	16.8	72	22.2	72	22.2	51.7	10.9	46	7.8	1972
25	56.8	13.8	62.4	16.9	73	22.8	73	22.8	51.1	10.6	48	8.9	1975
26	55.8	13.2	60.6	15.9	63	17.2	63	17.2	51.0	10.6	45	7.2	1966
27	56.4	13.6	62.3	16.8	74	23.3	74	23.3	50.4	10.2	44	6.7	1966
28	56.6	13.7	61.5	16.4	77	25.0	77	25.0	51.8	11.0	45	7.2	1966
29	57.6	14.2	62.2	16.8	65	18.3	65	18.3	53.0	11.7	51	10.6	1964
30													
31													
Monthly	56.3	13.5	61.7	16.5	80	26.7	80	26.7	51.0	10.6	43	6.1	1975*

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION

93117 SAN CLEMENTE, CALIFORNIA

1964-1977

MARCH

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP				MINIMUM TEMP					
	AVERAGE		AVERAGE		EXTREME		AVERAGE		EXTREME			
	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C		
1	55.8	13.2	60.4	15.8	65	18.3	1972*	51.3	10.7	47	8.3	1965*
2	56.2	13.4	60.8	16.0	68	20.0	1972	51.6	10.9	46	7.8	1966
3	56.0	13.3	61.4	16.3	71	21.7	1968	50.6	10.3	46	7.8	1976
4	56.7	13.7	62.6	17.0	74	23.3	1972	50.7	10.4	42	5.6	1974
5	56.6	13.7	62.4	16.9	68	20.0	1977	50.9	10.5	45	7.2	1976
6	56.3	13.5	62.6	17.0	71	21.7	1971	50.1	10.1	44	6.7	1974
7	56.2	13.4	60.9	16.1	70	21.1	1971	51.6	10.9	49	9.4	1976
8	55.4	13.0	59.9	15.5	64	17.8	1976	50.9	10.5	42	5.6	1976
9	55.2	12.9	60.1	15.6	63	17.2	1972	50.3	10.2	39	3.9	1976
10	55.6	13.1	60.6	15.9	64	17.8	1972	50.6	10.3	45	7.2	1974
11	56.1	13.4	61.0	16.1	67	19.4	1968	51.1	10.6	48	8.9	1971*
12	56.4	13.6	60.8	16.0	68	20.0	1976	51.9	11.1	48	8.9	1973
13	56.1	13.4	60.5	15.8	70	21.1	1970	51.6	10.9	47	8.3	1969
14	56.6	13.7	61.7	16.5	71	21.7	1964	51.4	10.8	49	9.4	1975*
15	56.5	13.6	62.7	17.1	68	20.0	1976	50.4	10.2	45	7.2	1977
16	57.7	14.3	64.0	17.8	73	22.8	1971	51.5	10.8	47	8.3	1973
17	57.7	14.3	62.8	17.1	79	26.1	1964	52.5	11.4	50	10.0	1977
18	56.2	13.4	61.5	16.4	67	19.4	1970	51.0	10.6	46	7.8	1975*
19	56.3	13.5	61.8	16.6	68	20.0	1970	50.8	10.4	44	6.7	1977*
20	56.6	13.7	62.1	16.7	68	20.0	1976*	51.1	10.6	47	8.3	1977
21	57.0	13.9	62.6	17.0	74	23.3	1976*	51.4	10.8	46	7.8	1977
22	57.1	13.9	61.8	16.6	69	20.6	1968	52.4	11.3	49	9.4	1969
23	56.8	13.8	61.1	16.2	68	20.0	1966	52.4	11.3	50	10.0	1975*
24	57.0	13.9	62.9	17.2	69	20.6	1976	51.2	10.7	47	8.3	1972
25	57.5	14.2	62.7	17.1	72	22.2	1969	52.2	11.2	47	8.3	1964
26	57.1	13.9	62.6	17.0	76	24.4	1976*	51.6	10.9	44	6.7	1977
27	57.1	13.9	62.4	16.9	69	20.6	1970*	51.8	11.0	47	8.3	1975
28	56.8	13.8	61.9	16.6	66	18.9	1968	51.6	10.9	44	6.7	1972
29	56.6	13.7	61.2	16.2	66	18.9	1976	51.9	11.1	50	10.0	1977*
30	56.9	13.8	62.1	16.7	75	23.9	1976	51.6	10.9	45	7.2	1972
31	56.6	13.7	61.6	16.4	68	20.0	1970	51.6	10.9	47	8.3	1972
Monthly	56.5	13.6	61.7	16.5	79	26.1	1964	51.3	10.7	39	3.9	1976

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

5725 DAILY AVERAGE/EXTREME TEMP MAR 1978

STATION
93117

SAN CLEMENTE, CALIFORNIA

1963-1977

APRIL
MONTH

STATION NAME

YEARS

DAY	MEAN TEMP		MAXIMUM TEMP			MINIMUM TEMP			DATE
	° F	° C	AVERAGE ° F	° C	EXTREME ° F	AVERAGE ° F	° C	EXTREME ° F	° C
1	56.5	13.6	61.6	16.4	73	51.2	10.7	46	7.8
2	56.4	13.6	61.3	16.3	67	51.3	10.7	44	6.7
3	57.0	13.9	62.8	17.1	72	51.1	10.6	44	6.7
4	58.5	14.7	65.5	18.6	85	51.5	10.8	47	8.3
5	58.0	14.4	64.2	17.9	75	51.8	11.0	48	8.9
6	56.6	13.7	61.1	16.2	66	52.1	11.2	47	8.3
7	57.2	14.0	63.3	17.4	68	51.2	10.7	47	8.3
8	57.1	13.9	63.4	17.4	72	50.8	10.4	47	8.3
9	58.3	14.6	64.2	17.9	82	52.4	11.3	49	9.4
10	58.5	14.7	64.1	17.8	85	52.8	11.6	46	7.8
11	57.0	13.9	62.9	17.2	67	51.2	10.7	46	7.8
12	56.9	13.8	62.0	16.7	69	51.7	10.9	46	7.8
13	57.7	14.3	62.7	17.1	68	52.7	11.5	48	8.9
14	57.9	14.4	63.5	17.5	77	52.4	11.3	45	7.2
15	58.2	14.6	63.7	17.6	85	52.6	11.4	46	7.8
16	57.0	13.9	61.6	16.4	66	52.3	11.3	48	8.9
17	56.6	13.7	61.1	16.2	66	52.1	11.2	46	7.8
18	56.7	13.7	61.2	16.2	66	52.3	11.3	49	9.4
19	57.0	13.9	62.9	17.2	73	51.1	10.6	44	6.7
20	57.1	13.9	62.7	17.1	66	51.5	10.8	46	7.8
21	57.4	14.1	62.5	16.9	69	52.4	11.3	47	8.3
22	57.8	14.3	62.8	17.1	71	52.7	11.5	49	9.4
23	57.5	14.2	63.1	17.3	72	51.9	11.1	49	9.4
24	57.9	14.4	63.1	17.3	73	52.7	11.5	49	9.4
25	57.9	14.4	63.3	17.4	74	52.4	11.3	50	10.0
26	58.2	14.6	63.9	17.7	75	52.5	11.4	49	9.4
27	58.2	14.6	63.7	17.6	77	52.7	11.5	47	8.3
28	57.8	14.3	63.2	17.3	71	52.4	11.3	47	8.3
29	57.2	14.0	62.2	16.8	66	52.2	11.2	48	8.9
30	57.2	14.0	61.8	16.6	68	52.7	11.5	51	10.6
31									
Monthly	57.4	14.1	62.8	17.1	65	52.0	11.1	44	6.7

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

STATION

93117 SAN CLEMENTE, CALIFORNIA

1963-1977

MAY

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		AVERAGE		EXTREME		DATE		AVERAGE		EXTREME		DATE	
	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C
1	57.5	14.2	62.7	17.1	68	20.0	1977*	11.3	52.3	11.3	48	8.9	1970	8.9
2	58.3	14.6	63.4	17.4	76	24.4	1970	11.7	53.1	11.7	48	8.9	1971	8.9
3	58.1	14.5	62.8	17.1	78	25.6	1970	11.8	53.3	11.8	49	9.4	1971	9.4
4	57.3	14.1	61.6	16.4	64	17.8	1977*	11.7	53.1	11.7	50	10.0	1964	10.0
5	57.3	14.1	61.2	16.2	64	17.8	1977*	11.8	53.3	11.8	48	8.9	1977	8.9
6	57.1	13.9	61.7	16.5	66	18.9	1970*	11.4	52.6	11.4	47	8.3	1977	8.3
7	57.5	14.2	62.2	16.8	66	18.9	1976	11.6	52.9	11.6	46	7.8	1977	7.8
8	58.0	14.4	62.4	16.9	67	19.4	1973	12.1	53.7	12.1	50	10.0	1973	10.0
9	58.3	14.6	62.5	16.9	67	19.4	1969	12.2	54.0	12.2	50	10.0	1973*	10.0
10	57.9	14.4	62.1	16.7	66	18.9	1972	12.1	53.8	12.1	50	10.0	1964	10.0
11	57.9	14.4	62.1	16.7	67	19.4	1976	12.1	53.7	12.1	48	8.9	1975	8.9
12	58.2	14.6	62.4	16.9	67	19.4	1976	12.2	53.9	12.2	50	10.0	1967*	10.0
13	58.7	14.8	63.1	17.3	70	21.1	1967	12.4	54.3	12.4	51	10.6	1967	10.6
14	59.3	15.2	64.7	18.2	82	27.8	1967	12.2	54.0	12.2	52	11.1	1977*	11.1
15	59.8	15.4	65.1	18.4	85	29.4	1967	12.5	54.5	12.5	50	10.0	1977	10.0
16	59.7	15.4	64.7	18.2	76	24.4	1970	12.6	54.7	12.6	50	10.0	1977	10.0
17	59.6	15.3	64.3	17.9	72	22.2	1970	12.7	54.9	12.7	51	10.6	1977	10.6
18	59.2	15.1	64.0	17.8	82	27.8	1971	12.5	54.5	12.5	50	10.0	1977	10.0
19	58.4	14.7	62.6	17.0	69	20.6	1968	12.3	54.1	12.3	51	10.6	1977	10.6
20	58.9	14.9	63.5	17.5	66	18.9	1976*	12.4	54.3	12.4	50	10.0	1972	10.0
21	59.0	15.0	63.8	17.7	66	18.9	1977*	12.3	54.1	12.3	51	10.6	1972	10.6
22	58.9	14.9	63.0	17.2	65	18.3	1967*	12.7	54.9	12.7	52	11.1	1977*	11.1
23	58.6	14.8	62.5	16.9	68	20.0	1973	12.7	54.8	12.7	49	9.4	1965	9.4
24	58.9	14.9	62.8	17.1	67	19.4	1973	12.8	55.1	12.8	52	11.1	1975	11.1
25	59.1	15.1	63.5	17.5	74	23.3	1974	12.7	54.8	12.7	52	11.1	1977*	11.1
26	59.6	15.3	64.3	17.9	74	23.3	1968	12.8	55.0	12.8	52	11.1	1965*	11.1
27	59.9	15.5	64.5	18.1	75	23.9	1968	12.9	55.3	12.9	52	11.1	1977*	11.1
28	60.2	15.7	64.8	18.2	77	25.0	1973	13.1	55.6	13.1	48	8.9	1977	8.9
29	60.0	15.6	64.3	17.9	70	21.1	1972	13.2	55.8	13.2	50	10.0	1977	10.0
30	59.8	15.4	63.7	17.6	72	22.2	1972	13.2	55.8	13.2	49	9.4	1977	9.4
31	59.8	15.4	63.9	17.7	68	20.0	1972	13.1	55.6	13.1	52	11.1	1977	11.1
Monthly	58.7	14.8	63.2	17.3	85	29.4	1967	12.3	54.2	12.3	46	7.8	1977	7.8

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

5725 DAILY AVERAGE/EXTREME TEMP MAR 1977

93117

SAN CLEMENTE, CALIFORNIA

1963-1977

JUNE

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP				MINIMUM TEMP			
	AVERAGE		AVERAGE		EXTREME		AVERAGE		EXTREME	
	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C
1	60.2	15.7	64.3	17.9	72	22.2	56.0	13.3	52	11.1
2	60.5	15.8	65.1	18.4	69	20.6	55.9	13.3	52	11.1
3	60.0	15.6	64.4	18.0	68	20.0	55.7	13.2	52	11.1
4	60.2	15.7	64.4	18.0	68	20.0	55.9	13.3	53	11.7
5	60.9	16.1	65.3	18.5	70	21.1	56.5	13.6	52	11.1
6	60.2	15.7	63.8	17.7	68	20.0	56.5	13.6	54	12.2
7	59.9	15.5	63.3	17.4	67	19.4	56.5	13.6	54	12.2
8	60.0	15.6	63.5	17.5	70	21.1	56.4	13.6	54	12.2
9	60.5	15.8	64.4	18.0	70	21.1	56.7	13.7	53	11.7
10	60.6	15.9	64.5	18.1	70	21.1	56.7	13.7	54	12.2
11	60.8	16.0	65.0	18.3	74	23.3	56.5	13.6	54	12.2
12	61.1	16.2	65.1	18.4	70	21.1	57.1	13.9	54	12.2
13	61.0	16.1	64.8	18.2	69	20.6	57.1	13.9	54	12.2
14	61.5	16.4	65.8	18.8	70	21.1	57.2	14.0	54	12.2
15	61.6	16.4	65.6	18.7	77	25.0	57.5	14.2	53	11.7
16	61.2	16.2	65.3	18.5	72	22.2	57.0	13.9	53	11.7
17	61.7	16.5	65.9	18.8	71	21.7	57.5	14.2	53	12.8
18	62.1	16.7	66.4	19.1	72	22.2	57.8	14.3	54	12.2
19	62.3	16.8	66.6	19.2	75	23.9	58.1	14.5	55	12.8
20	62.6	17.0	66.7	19.3	78	25.6	58.5	14.7	54	12.2
21	62.5	16.9	67.1	19.5	75	23.9	57.9	14.4	54	12.2
22	62.4	16.9	66.9	19.4	74	23.3	57.9	14.4	54	12.2
23	62.5	16.9	66.9	19.4	80	26.7	58.1	14.5	52	11.1
24	62.9	17.2	67.3	19.6	90	32.2	58.5	14.7	56	13.3
25	63.2	17.3	68.0	20.0	84	28.9	58.3	14.6	52	11.1
26	63.7	17.6	68.7	20.4	82	27.8	58.6	14.8	53	11.7
27	62.6	17.0	67.3	19.6	80	26.7	57.9	14.4	52	11.1
28	62.5	16.9	66.8	19.3	78	25.6	58.2	14.6	56	13.3
29	62.4	16.9	66.8	19.3	73	22.8	57.9	14.4	55	12.8
30	62.7	17.1	67.6	19.8	75	23.9	57.7	14.3	55	12.8
31										
Monthly	61.5	16.4	65.8	18.8	90	32.2	57.3	14.1	52	11.1

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

DAILY AVERAGE/EXTREME TEMPERATURES

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

93117

SAN CLEMENTE, CALIFORNIA

1963-1977

JULY

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		AVERAGE		MAXIMUM TEMP		EXTREME		DATE		AVERAGE		MINIMUM TEMP		EXTREME		DATE	
	° F	° C	° F	° C	° F	° C	° F	° C			° F	° C	° F	° C	° F	° C		
1	62.7	17.1	67.4	19.7	74	23.3	74	23.3	1976	1976	57.9	14.4	55	12.8	55	12.8	1963*	1963*
2	62.7	17.1	67.7	19.8	75	23.9	75	23.9	1970	1970	57.6	14.3	54	12.2	54	12.2	1965	1965
3	63.0	17.2	67.3	19.6	76	24.4	76	24.4	1969	1969	58.7	14.8	55	12.8	55	12.8	1975*	1975*
4	62.7	17.1	67.2	19.6	74	23.3	74	23.3	1970	1970	58.1	14.5	52	11.1	52	11.1	1975	1975
5	62.5	16.9	67.1	19.5	73	22.8	73	22.8	1970	1970	58.0	14.4	55	12.8	55	12.8	1975*	1975*
6	62.5	16.9	67.1	19.5	75	23.9	75	23.9	1970	1970	58.0	14.4	54	12.2	54	12.2	1977	1977
7	62.4	16.9	66.5	19.2	73	22.8	73	22.8	1972	1972	58.3	14.6	54	12.2	54	12.2	1964	1964
8	63.4	17.4	67.9	19.9	73	22.8	73	22.8	1972	1972	58.8	14.9	54	12.2	54	12.2	1965	1965
9	63.6	17.6	68.0	20.0	71	21.7	71	21.7	1976*	1976*	59.1	15.1	54	12.2	54	12.2	1965	1965
10	63.7	17.6	68.5	20.3	74	23.3	74	23.3	1971	1971	58.9	14.9	56	13.3	56	13.3	1977*	1977*
11	63.8	17.7	68.7	20.4	75	23.9	75	23.9	1971	1971	58.9	14.9	55	12.8	55	12.8	1977	1977
12	62.9	17.2	67.1	19.5	71	21.7	71	21.7	1971	1971	58.7	14.8	56	13.3	56	13.3	1977*	1977*
13	63.0	17.2	66.5	19.2	70	21.1	70	21.1	1971*	1971*	59.5	15.3	57	13.9	57	13.9	1977*	1977*
14	63.0	17.2	66.7	19.3	72	22.2	72	22.2	1972	1972	59.3	15.2	53	11.7	53	11.7	1975	1975
15	63.6	17.6	67.7	19.8	74	23.3	74	23.3	1974	1974	59.5	15.3	53	11.7	53	11.7	1975	1975
16	64.2	17.9	68.6	20.3	76	24.4	76	24.4	1974	1974	59.9	15.5	55	12.8	55	12.8	1965	1965
17	64.1	17.8	67.9	19.9	75	23.9	75	23.9	1970	1970	60.3	15.7	57	13.9	57	13.9	1964	1964
18	64.3	17.9	68.5	20.3	74	23.3	74	23.3	1972	1972	60.0	15.6	57	13.9	57	13.9	1964	1964
19	64.0	17.8	68.5	20.3	75	23.9	75	23.9	1974	1974	59.5	15.3	56	13.3	56	13.3	1975*	1975*
20	64.5	18.1	69.3	20.7	79	26.1	79	26.1	1974	1974	59.6	15.3	57	13.9	57	13.9	1976*	1976*
21	64.3	17.9	68.7	20.4	75	23.9	75	23.9	1977*	1977*	59.9	15.5	57	13.9	57	13.9	1975*	1975*
22	64.5	18.1	69.2	20.7	76	24.4	76	24.4	1970	1970	59.9	15.5	55	12.8	55	12.8	1973	1973
23	65.4	18.6	70.2	21.2	78	25.6	78	25.6	1977	1977	60.7	15.9	55	12.8	55	12.8	1973	1973
24	64.5	18.1	69.0	20.6	75	23.9	75	23.9	1974	1974	59.9	15.5	53	11.7	53	11.7	1973	1973
25	64.9	18.3	69.8	21.0	74	23.3	74	23.3	1977	1977	59.9	15.5	56	13.3	56	13.3	1977*	1977*
26	65.0	18.3	69.6	20.9	76	24.4	76	24.4	1977*	1977*	60.3	15.7	57	13.9	57	13.9	1977	1977
27	66.0	18.9	70.8	21.6	86	30.0	86	30.0	1977	1977	61.1	16.2	58	14.4	58	14.4	1965	1965
28	66.0	18.9	70.8	21.6	78	25.6	78	25.6	1977	1977	61.2	16.2	58	14.4	58	14.4	1965	1965
29	65.8	18.8	69.7	20.9	75	23.9	75	23.9	1970	1970	61.9	16.6	57	13.9	57	13.9	1977	1977
30	66.2	19.0	70.3	21.3	76	24.4	76	24.4	1971	1971	62.1	16.7	59	15.0	59	15.0	1964	1964
31	65.7	18.7	69.9	21.1	75	23.9	75	23.9	1971*	1971*	61.5	16.4	58	14.4	58	14.4	1965	1965
Monthly	64.0	17.8	68.5	20.3	86	30.0	86	30.0	1977	1977	59.6	15.3	52	11.1	52	11.1	1975	1975

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

5725 DAILY AVERAGE/EXTREME TEMP MAR 1978

93117

SAN CLEMENTE, CALIFORNIA

1963-1977

AUGUST

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		AVERAGE		MAXIMUM TEMP		EXTREME		DATE		AVERAGE		MINIMUM TEMP		EXTREME		DATE	
	° F	° C	° F	° C	° F	° C	° F	° C	DATE	DATE	° F	° C	° F	° C	° F	° C	DATE	DATE
1	65.7	18.7	69.9	21.1	82	27.8	76	24.4	1971	1972	61.5	16.4	58	14.4	58	14.4	1965	1965
2	65.5	18.6	69.7	20.9	76	24.4	74	23.3	1971	1971	61.4	16.3	58	14.4	58	14.4	1969*	1969*
3	64.7	18.2	68.5	20.3	74	23.3	79	26.1	1971	1971	60.9	16.1	57	13.9	57	13.9	1975*	1975*
4	64.9	18.3	68.9	20.5	79	26.1	78	25.6	1971	1971	60.9	16.1	56	13.3	56	13.3	1969	1969
5	64.9	18.3	69.3	20.7	78	25.6	78	25.6	1972	1972	61.2	16.2	56	13.3	56	13.3	1969	1969
6	65.6	18.7	69.9	21.1	78	25.6	81	27.2	1970	1970	61.6	16.4	57	13.9	57	13.9	1965	1965
7	66.5	19.2	71.3	21.8	81	27.2	85	29.4	1971	1971	61.5	16.4	58	14.4	58	14.4	1969*	1969*
8	66.9	19.4	72.3	22.4	85	29.4	85	29.4	1971	1971	62.1	16.7	59	15.0	59	15.0	1977	1977
9	66.6	19.2	71.1	21.7	85	29.4	80	26.7	1971	1971	62.2	16.8	59	15.0	59	15.0	1977*	1977*
10	66.4	19.1	70.6	21.4	80	26.7	76	24.4	1971	1971	62.5	16.9	59	15.0	59	15.0	1975*	1975*
11	66.4	19.1	70.3	21.3	76	24.4	78	25.6	1971*	1971*	62.4	16.9	59	15.0	59	15.0	1975	1975
12	66.8	19.3	71.1	21.7	78	25.6	80	26.7	1965	1965	62.7	17.1	59	15.0	59	15.0	1975*	1975*
13	67.0	19.4	71.3	21.8	80	26.7	77	25.0	1965	1965	62.1	16.7	59	15.0	59	15.0	1964	1964
14	66.5	19.2	70.9	21.6	77	25.0	76	24.4	1970*	1970*	62.4	16.9	59	15.0	59	15.0	1975*	1975*
15	66.8	19.3	71.1	21.7	76	24.4	76	24.4	1970	1970	62.0	16.7	59	15.0	59	15.0	1964	1964
16	66.4	19.1	70.9	21.6	76	24.4	76	24.4	1970	1970	62.6	17.0	58	14.4	58	14.4	1965*	1965*
17	66.5	19.2	70.5	21.4	76	24.4	76	24.4	1976*	1976*	61.9	16.6	58	14.4	58	14.4	1976	1976
18	66.8	19.3	71.7	22.1	76	24.4	79	26.1	1973	1973	62.2	16.8	58	14.4	58	14.4	1974	1974
19	66.9	19.4	71.7	22.1	76	24.4	76	24.4	1976	1976	62.7	17.1	60	15.6	60	15.6	1964	1964
20	67.0	19.4	71.2	21.8	76	24.4	80	26.7	1972	1972	62.2	16.8	60	15.6	60	15.6	1977*	1977*
21	66.7	19.3	71.1	21.7	80	26.7	84	28.9	1972	1972	62.0	16.7	59	15.0	59	15.0	1975	1975
22	66.7	19.3	71.5	21.9	84	28.9	78	25.6	1972	1972	61.3	16.3	60	15.6	60	15.6	1975*	1975*
23	66.7	19.3	72.1	22.3	78	25.6	74	23.3	1976*	1976*	61.7	16.5	58	14.4	58	14.4	1975	1975
24	66.4	19.1	71.1	21.7	74	23.3	75	23.9	1966	1966	62.0	16.7	59	15.0	59	15.0	1975*	1975*
25	66.4	19.1	70.8	21.6	75	23.9	76	24.4	1976	1976	61.8	16.6	58	14.4	58	14.4	1974	1974
26	66.2	19.0	70.7	21.5	76	24.4	78	25.6	1971	1971	61.3	16.3	55	12.8	55	12.8	1977	1977
27	65.9	18.8	70.5	21.4	78	25.6	75	23.9	1971	1971	61.6	16.4	59	15.0	59	15.0	1975*	1975*
28	65.7	18.7	69.9	21.1	75	23.9	78	25.6	1972	1972	61.4	16.3	59	15.0	59	15.0	1973*	1973*
29	65.9	18.8	70.3	21.3	78	25.6	84	28.9	1972	1972	61.7	16.5	57	13.9	57	13.9	1975	1975
30	66.2	19.0	70.8	21.6	84	28.9	78	25.6	1972*	1972*	61.4	16.3	57	13.9	57	13.9	1975	1975
31	65.9	18.8	70.3	21.3	78	25.6	85	29.4	1971	1971	61.6	16.6	55	12.8	55	12.8	1977	1977
Monthly	66.2	19.0	70.7	21.5	85	29.4												

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

MONTH

DAILY AVERAGE/EXTREME TEMPERATURES

DAY	MEAN TEMP			MAXIMUM TEMP						MINIMUM TEMP					
	AVERAGE			AVERAGE			EXTREME			AVERAGE			EXTREME		
	° F	° C		° F	° C		° F	° C		° F	° C		° F	° C	
1	65.7	18.7		70.3	21.3	77	25.0	1972	61.1	16.2	56	13.3	1971		
2	66.8	19.3		71.9	22.2	83	28.3	1967	61.7	16.5	58	14.4	1964		
3	65.4	18.6		69.5	20.8	75	23.9	1967	61.3	16.3	57	13.9	1964		
4	66.0	18.9		70.3	21.3	77	25.0	1972	61.7	16.5	58	14.4	1971		
5	65.9	18.8		70.1	21.2	80	26.7	1972	61.7	16.5	58	14.4	1964		
6	66.0	18.9		70.3	21.3	76	24.4	1971	61.7	16.5	57	13.9	1970		
7	66.3	19.1		70.3	21.3	75	23.9	1971	62.2	16.8	59	15.0	1964		
8	65.9	18.8		69.9	21.1	76	24.4	1976	61.9	16.6	57	13.9	1964		
9	65.6	18.7		69.6	20.9	74	23.3	1967	61.6	16.4	59	15.0	1967*		
10	65.9	18.8		70.2	21.2	83	28.3	1967	61.7	16.5	59	15.0	1965*		
11	65.9	18.8		70.4	21.3	79	26.1	1971*	61.3	16.3	58	14.4	1977		
12	65.7	18.7		69.5	20.8	85	29.4	1971	61.9	16.6	59	15.0	1970*		
13	64.6	18.1		68.3	20.2	78	25.6	1971	60.9	16.1	58	14.4	1969*		
14	64.7	18.2		68.5	20.3	78	25.6	1971	61.0	16.1	57	13.9	1970		
15	65.2	18.4		69.3	20.7	75	23.9	1966	61.1	16.2	54	12.2	1970		
16	65.4	18.6		69.8	21.0	78	25.6	1966	61.0	16.1	57	13.9	1970		
17	64.9	18.3		68.7	20.4	74	23.3	1971*	61.1	16.2	57	13.9	1970		
18	64.9	18.3		68.7	20.4	74	23.3	1971	61.2	16.2	56	13.3	1970		
19	64.5	18.1		68.7	20.4	77	25.0	1971	60.3	15.7	55	12.8	1970		
20	64.7	18.2		69.5	20.8	75	23.9	1972	59.9	15.5	56	13.3	1968		
21	65.0	18.3		70.3	21.3	74	23.3	1972*	59.7	15.4	55	12.8	1970		
22	65.4	18.6		70.7	21.5	75	23.9	1970	60.1	15.6	56	13.3	1972		
23	66.5	19.2		71.9	22.2	92	33.3	1975	61.0	16.1	57	13.9	1972		
24	66.6	19.2		72.0	22.2	90	32.2	1975	61.2	16.2	55	12.8	1977		
25	66.1	18.9		71.1	21.7	84	28.9	1975	61.0	16.1	57	13.9	1972*		
26	66.7	19.3		72.3	22.4	102	38.9	1963	61.1	16.2	55	12.8	1972*		
27	67.8	19.9		72.5	22.5	95	35.0	1963	63.0	17.2	59	15.0	1968*		
28	66.6	19.2		71.5	21.9	92	33.3	1970	61.6	16.4	58	14.4	1968		
29	65.7	18.7		70.0	21.1	83	28.3	1970	61.3	16.3	56	13.3	1965		
30	66.2	19.0		71.2	21.8	84	28.9	1965	61.2	16.2	58	14.4	1977*		
31															
Month	65.7	18.7		70.2	21.2	102	38.9	1963	61.2	16.2	54	12.2	1970		

•ALSO ON EARLIER YEARS

DIRNA VOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

5725 DAILY AVERAGE/EXTREME TEMP MAR 1977

STATION 93117 SAN CLEMENTE, CALIFORNIA 1963-1977 MONTH OCTOBER YEARS

DAY	MEAN TEMP			MAXIMUM TEMP				MINIMUM TEMP				
	AVERAGE		°C	AVERAGE		EXTREME		AVERAGE		EXTREME		
	°F	°C		°F	°C	°F	°C	°F	°C	°F	°C	
1	65.9	18.8	71.2	21.8	86	30.0	1965	60.7	15.9	53	11.7	1971
2	64.7	18.2	69.7	20.9	77	25.0	1970	59.7	15.4	52	11.1	1971
3	65.0	18.3	69.9	21.1	74	23.3	1975*	60.2	15.7	55	12.8	1971
4	65.6	18.7	70.9	21.6	88	31.1	1971	60.2	15.7	56	13.3	1973
5	65.6	18.7	71.0	21.7	94	34.4	1971	60.2	15.7	57	13.9	1973
6	66.5	19.2	72.1	22.3	92	33.3	1971	60.8	16.0	55	12.8	1974
7	66.0	18.9	71.6	22.0	85	29.4	1967	60.5	15.8	56	13.3	1974
8	64.9	18.3	70.5	21.4	78	25.6	1976	59.3	15.2	52	11.1	1975
9	64.4	18.0	69.8	21.0	87	30.6	1976	59.0	15.0	52	11.1	1975
10	64.3	17.9	69.9	21.1	83	28.3	1971	58.6	14.8	55	12.8	1973
11	64.1	17.8	68.8	20.4	74	23.3	1972	59.5	15.3	56	13.3	1974*
12	63.4	17.4	67.5	19.7	74	23.3	1972	59.3	15.2	57	13.9	1973
13	62.9	17.2	67.5	19.7	77	25.0	1972	58.3	14.6	54	12.2	1973
14	63.5	17.5	68.2	20.1	79	26.1	1975	58.9	14.9	55	12.8	1975
15	64.0	17.8	69.3	20.7	81	27.2	1975	58.7	14.8	56	13.3	1975*
16	64.8	18.2	71.1	21.7	90	32.2	1967	58.5	14.7	55	12.8	1971
17	64.6	18.1	69.9	21.1	91	32.8	1967	59.3	15.2	54	12.2	1971
18	64.0	17.8	68.9	20.5	78	25.6	1966	59.1	15.1	53	11.7	1971
19	63.5	17.5	68.9	20.5	76	24.4	1964	58.1	14.5	52	11.1	1971
20	63.8	17.7	68.9	20.5	87	30.6	1964	58.6	14.8	51	10.6	1977
21	63.7	17.6	69.5	20.8	91	32.8	1965	57.9	14.4	51	10.6	1977
22	64.0	17.8	69.4	20.8	94	34.4	1965	58.6	14.8	50	10.0	1977
23	64.0	17.8	69.5	20.8	90	32.2	1965	58.5	14.7	53	11.7	1977*
24	63.8	17.7	69.7	20.9	88	31.1	1965	58.0	14.4	50	10.0	1975
25	63.0	17.2	67.6	19.8	78	25.6	1965	58.5	14.7	54	12.2	1973
26	63.1	17.3	67.9	19.9	75	23.9	1976*	58.2	14.6	55	12.8	1973
27	63.1	17.3	68.1	20.1	76	24.4	1973	58.0	14.4	54	12.2	1975*
28	62.5	16.9	68.5	20.3	82	27.8	1965	56.5	13.6	50	10.0	1975
29	61.8	16.6	67.9	19.9	78	25.6	1973	55.7	13.2	47	8.3	1971
30	62.2	16.8	68.5	20.3	82	27.8	1973	55.9	13.3	44	6.7	1971
31	62.2	16.8	68.3	20.2	83	28.3	1967	56.1	13.4	51	10.6	1971
Monthly	64.0	17.8	69.4	20.8	94	34.4	1971*	58.7	14.8	44	6.7	1971

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

DAILY AVERAGE/EXTREME TEMPERATURES

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

93117

SAN CLEMENTE, CALIFORNIA

1963-1977

NOVEMBER

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		AVERAGE		MAXIMUM TEMP		AVERAGE		EXTREME		DATE		MINIMUM TEMP		EXTREME		DATE	
	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C			° F	° C	° F	° C		
1	62.8	17.1	68.7	20.4	90	32.2	19.0	32.2	57.0	13.9	1966	1966	52	11.1	52	11.1	1971	1971
2	62.5	16.9	68.4	20.2	85	29.4	19.4	29.4	56.7	13.7	1966	1966	50	10.0	50	10.0	1971	1971
3	61.6	16.4	67.0	19.4	79	26.1	19.5	26.1	56.2	13.4	1976	1976	49	9.4	49	9.4	1971	1971
4	61.6	16.4	67.1	19.5	55	29.4	19.0	29.4	56.1	13.4	1976	1976	48	8.9	48	8.9	1973	1973
5	61.5	16.4	66.2	19.0	62	27.8	19.4	27.8	56.8	13.8	1976	1976	52	11.1	52	11.1	1971	1971
6	61.3	16.3	66.9	19.4	75	23.9	18.6	23.9	55.7	13.2	1976	1976	52	11.1	52	11.1	1973*	1973*
7	60.6	15.9	65.5	18.6	74	23.3	19.0	23.3	55.6	13.1	1974	1974	49	9.4	49	9.4	1973	1973
8	60.8	16.0	66.2	19.0	75	23.9	19.3	23.9	55.5	13.1	1968	1968	50	10.0	50	10.0	1977	1977
9	61.3	16.3	66.7	19.3	74	23.3	19.4	23.3	55.9	13.3	1968	1968	52	11.1	52	11.1	1972*	1972*
10	61.8	16.6	68.1	20.1	78	25.6	19.4	25.6	55.5	13.1	1968	1968	49	9.4	49	9.4	1977	1977
11	61.1	16.2	66.9	19.4	76	24.4	19.4	24.4	55.2	12.9	1974	1974	50	10.0	50	10.0	1977*	1977*
12	61.6	16.4	67.0	19.4	63	28.3	18.9	28.3	56.3	13.5	1974	1974	50	10.0	50	10.0	1977	1977
13	60.8	16.0	66.1	18.9	77	25.0	17.9	25.0	55.4	13.0	1975	1975	50	10.0	50	10.0	1977*	1977*
14	59.9	15.5	64.3	17.9	72	22.2	18.3	22.2	55.5	13.1	1970	1970	47	8.3	47	8.3	1964	1964
15	60.0	15.6	65.0	18.3	73	22.8	17.8	22.8	54.9	12.7	1970	1970	47	8.3	47	8.3	1964	1964
16	59.6	15.3	64.1	17.8	71	21.7	17.9	21.7	55.1	12.8	1976	1976	41	5.0	41	5.0	1964	1964
17	59.4	15.2	64.3	17.9	79	26.1	18.1	26.1	54.6	12.6	1976	1976*	45	7.2	45	7.2	1971	1971
18	59.4	15.2	64.5	18.1	69	20.6	17.9	20.6	54.4	12.4	1976*	1976*	46	7.8	46	7.8	1971	1971
19	59.5	15.3	64.3	17.9	69	20.6	18.3	20.6	54.7	12.6	1969	1969	48	8.9	48	8.9	1964	1964
20	59.0	15.0	64.9	18.3	71	21.7	17.6	21.7	53.2	11.8	1968	1968	45	7.2	45	7.2	1973	1973
21	58.4	14.7	63.7	17.6	69	20.6	17.6	20.6	53.2	11.8	1968	1968	47	8.3	47	8.3	1977*	1977*
22	58.1	14.5	63.6	17.6	69	20.6	18.1	20.6	52.6	11.4	1976*	1976*	45	7.2	45	7.2	1977	1977
23	58.7	14.8	64.5	18.1	69	20.6	19.4	20.6	52.9	11.6	1975	1975	45	7.2	45	7.2	1971	1971
24	60.6	15.9	67.0	19.4	79	26.1	18.8	26.1	54.2	12.3	1974	1974	46	7.8	46	7.8	1973	1973
25	60.5	15.8	65.9	18.8	74	23.3	18.6	23.3	55.1	12.8	1969	1969	49	9.4	49	9.4	1966	1966
26	59.7	15.4	65.5	18.6	72	22.2	18.1	22.2	53.9	12.2	1969	1969	49	9.4	49	9.4	1974	1974
27	58.1	14.5	64.5	18.1	74	23.3	17.8	23.3	51.8	11.0	1969	1969	45	7.2	45	7.2	1974	1974
28	58.5	14.7	64.0	17.8	73	22.8	18.8	22.8	53.1	11.7	1969	1969	45	7.2	45	7.2	1974	1974
29	59.3	15.2	65.8	18.8	76	24.4	18.5	24.4	52.9	11.6	1977	1977	44	6.7	44	6.7	1974	1974
30	59.1	15.1	65.3	18.5	76	24.4	18.5	24.4	52.9	11.6	1964	1964	44	6.7	44	6.7	1975	1975
31																		
Monthly	60.2	15.7	65.7	18.7	90	32.2	18.7	32.2	54.8	12.7	1966	1966	41	5.0	41	5.0	1964	1964

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

5725 DAILY AVERAGE/EXTREME TEMP MAR 1978

93117

SAN CLEMENTE, CALIFORNIA

1963-1977

DECEMBER

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		AVERAGE		MAXIMUM TEMP		AVERAGE		EXTREME		DATE		MINIMUM TEMP		EXTREME		DATE	
	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C			° F	° C	° F	° C		
1	58.8	14.9	64.9	18.3	77	25.0	52.7	11.5	49	9.4	1977		52.7	11.5	49	9.4	1977	
2	58.1	14.5	64.0	17.8	71	21.7	52.2	11.2	47	8.3	1969		52.2	11.2	47	8.3	1974	
3	57.3	14.1	63.0	17.2	72	22.2	51.7	10.9	47	8.3	1969		51.7	10.9	47	8.3	1976*	
4	58.1	14.5	63.8	17.7	72	22.2	52.5	11.4	48	8.9	1968		52.5	11.4	48	8.9	1977*	
5	57.5	14.2	63.2	17.3	69	20.6	51.9	11.1	47	8.3	1965		51.9	11.1	47	8.3	1973*	
6	57.6	14.2	63.7	17.6	71	21.7	51.5	10.8	45	7.2	1970		51.5	10.8	45	7.2	1976	
7	57.5	14.2	63.1	17.3	68	20.0	51.8	11.0	48	8.9	1977*		51.8	11.0	48	8.9	1976*	
8	57.3	14.1	62.6	17.0	69	20.6	51.9	11.1	48	8.9	1977*		51.9	11.1	48	8.9	1976*	
9	56.6	13.7	61.8	16.6	74	23.3	51.5	10.8	47	8.3	1973		51.5	10.8	47	8.3	1972	
10	56.0	13.3	61.2	16.2	73	22.8	50.7	10.4	45	7.2	1973		50.7	10.4	45	7.2	1972	
11	56.0	13.3	61.7	16.5	70	21.1	50.4	10.2	42	5.6	1966		50.4	10.2	42	5.6	1972	
12	55.8	13.2	61.2	16.2	67	19.4	50.5	10.3	40	4.4	1970		50.5	10.3	40	4.4	1972	
13	56.0	13.3	60.9	16.1	68	20.0	51.1	10.6	44	6.7	1966		51.1	10.6	44	6.7	1967	
14	55.4	13.0	60.7	15.9	65	18.3	50.1	10.1	41	5.0	1974*		50.1	10.1	41	5.0	1975	
15	55.8	13.2	62.1	16.7	70	21.1	49.5	9.7	42	5.6	1976		49.5	9.7	42	5.6	1975	
16	57.2	14.0	63.8	17.7	72	22.2	50.7	10.4	41	5.0	1972		50.7	10.4	41	5.0	1975	
17	55.9	13.3	61.4	16.3	67	19.4	50.4	10.2	41	5.0	1976		50.4	10.2	41	5.0	1975	
18	55.7	13.2	60.9	16.1	66	18.9	50.4	10.2	43	6.1	1974*		50.4	10.2	43	6.1	1970	
19	56.1	13.4	62.2	16.8	71	21.7	50.0	10.0	44	6.7	1966		50.0	10.0	44	6.7	1975	
20	55.9	13.3	61.4	16.3	71	21.7	50.4	10.2	44	6.7	1972		50.4	10.2	44	6.7	1975	
21	56.5	13.6	62.1	16.7	72	22.2	51.0	10.6	45	7.2	1972		51.0	10.6	45	7.2	1967	
22	57.4	14.1	62.4	16.9	65	18.3	52.5	11.4	48	8.9	1976*		52.5	11.4	48	8.9	1976*	
23	57.2	14.0	63.1	17.3	71	21.7	51.4	10.8	46	7.8	1967		51.4	10.8	46	7.8	1968	
24	57.7	14.3	63.7	17.6	70	21.1	51.8	11.0	44	6.7	1967		51.8	11.0	44	6.7	1968	
25	57.2	14.0	63.1	17.3	73	22.8	51.4	10.9	44	6.7	1972		51.4	10.9	44	6.7	1976*	
26	56.9	13.8	62.2	16.8	72	22.2	51.6	10.9	45	7.2	1972		51.6	10.9	45	7.2	1974	
27	55.9	13.3	62.0	16.7	73	22.8	49.8	9.9	42	5.6	1972		49.8	9.9	42	5.6	1974	
28	55.1	12.8	59.6	15.3	67	19.4	50.7	10.4	46	7.8	1975		50.7	10.4	46	7.8	1966	
29	55.6	13.1	60.7	15.9	67	19.4	50.6	10.3	45	7.2	1975		50.6	10.3	45	7.2	1974	
30	54.7	12.6	59.8	15.4	62	16.7	49.6	9.8	45	7.2	1972		49.6	9.8	45	7.2	1974	
31	54.6	12.6	60.5	15.8	71	21.7	48.7	9.3	45	7.2	1968		48.7	9.3	45	7.2	1974	
Monthly	56.6	13.7	62.2	16.8	77	25.0	51.0	10.6	40	4.4	1977		51.0	10.6	40	4.4	1972	

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

EXTREME VALUES

MAXIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

STATION
93117

SAN CLEMENTE, CALIFORNIA

STATION NAME

63-77

YEARS

WHOLE DEGREES FAHRENHEIT

[illegible]

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20

197055

EXTREME VALUES

MINIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)93117 STATION SAN CLEMENTE, CALIFORNIA 63-77 YEARS

WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
63					52	55	56	59	60	56	52		
64		48	47	47	49	53	54	58	57	56	41		
65		46	47	46	49	52	54	57	56	56	50		
66		44	46	50	54	53	58	59	56	54	49	46	
67	46	47	49	46	49	52	57	60	59	57	53	43	43
68	45	48	50	49	51	58	56	59	56	55	48	44	44
69	45	45	45	50	52	56	57	56	58	56	52	50	45
70	48	52		51	48	55	59	59	54	49	52		
71		46	47	49	48	53	57	60	56	44	45		
72		44	44	46	50	56	59	59	55	52	52	40	
73	44	48	44	47	50	53	53	59	58	54	45	46	44
74	41	43	42	46	52	57	56	58	60	52	44	42	41
75	39	43	46	44	48	52	52	57	58	50	44	41	39
76	36	48	39	47	51	54	57	58	60	52	48	44	36
77	42	48	44	44	46	52	54	55	55	50	45	45	42
MEAN	42.9	46.4	45.4	47.3	49.9	54.1	55.9	58.2	57.2	52.9	48.0	44.1	41.8
S. D.	3.756	2.503	2.902	2.199	2.086	1.981	2.120	1.424	1.971	3.543	3.798	2.885	3.012
TOTAL OBS.	279	396	403	420	465	450	465	465	450	465	450	310	5018

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5723 Extreme Values Jan 1969

H 7

MINIMUM TEMPERATURE
FROM DAILY OBSERVATIONS)

93117	STATION	SAN CLEMENTE, CALIFORNIA	63-77	YEARS
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WHOLE DEGREES FAHRENHEIT
/BASED ON LESS THAN FULL MONTHS/

[illegible]

PSYCHROMETRIC SUMMARY

5

PSYCHROMETRIC SUMMARY JAN 68

JAN
MONTH

PAGE 1
HOURS (L.S.T.)

YEARS

73-77

SAN CLEMENTE, CALIFORNIA
STATION NAME

93117
STATION

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL		Dew Point
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb			
80/ 79													.2					2	2				
78/ 77												.1	.1					2	2				
76/ 75											.2			.1				3	3				
74/ 73											.2							7	7				
72/ 71								.1	.2	.3	.2							8	8				
70/ 69						.1	.1	.3	.4	.2	.2							14	14				
68/ 67				.2	.1	.2	.6	.2	.1	.2								19	19				
66/ 65				.2	.2	.4	.2	.2	.3									20	20				
64/ 63			.3	1.0	.6	.3	.5	.4	.1									41	41	1			
62/ 61		.2	.9	2.3	1.8	.5	.9	.6	.3									92	92	3			
60/ 59	.2	1.2	2.8	2.3	1.2	1.0	.6	.2	.1									119	119	19			
58/ 57	.3	2.2	2.9	2.2	1.0	.9	.4	.2										126	126	67			
56/ 55	.5	5.2	3.2	1.8	1.6	.9	.3	.1										168	168	151			
54/ 53	.6	8.1	4.7	2.2	1.8	.5												221	221	200			
52/ 51	1.0	6.8	2.8	1.7	.5	.2												161	161	208			
50/ 49	1.0	3.8	1.5	1.0	.2													91	91	219			
48/ 47	.9	3.0	1.0	.5	.2													70	70	157			
46/ 45	.3	1.9	.8	.1														39	39	115			
44/ 43	.2	1.1	.5															22	22	55			
42/ 41	.2	.2																4	4	30			
40/ 39	.1	.3																5	5	5			
38/ 37	.3	.1																5	5	5			
36/ 35		.1																1	1	4			
34/ 33																				1			
32/ 31																				20			
30/ 29																				9			
28/ 27																				4			
26/ 25																				3			
24/ 23																				3			
22/ 21																				1			
TOTAL	5.2	34.4	21.5	15.3	9.3	5.0	3.6	2.3	1.5	1.0	.5	.1	.3					1240	1240	1240			

Element (X)	Σ X	σ _x	Σ	No. Obs.	Mean No. of Hours with Temperature						Total
Rel. Hum.	93038	18,712	75.0	1240	≥ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb	68428	6,038	55.2	1240			33.0	8.4			744.0
Wet Bulb	62753	4,324	50.6	1240							744.0
Dew Point	57453	6,411	46.3	1240		24.0					744.0

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PSYCHROMETRIC SUMMARY

93117
STATIONSAN CLEMENTE, CALIFORNIA
STATION NAME

73-77

YEARS

FEB
MONTHPAGE 1
HOURS (L.S.T.)58008
5

PSYCHROMETRIC SUMMARY JAN 68

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb		Wet Bulb
72/ 71							.2	.1			.4	.1	.1					1	1		
70/ 69							.1	.1	.1	.3	.2							9	9		
68/ 67					.2	.1		.1	.1	.3								10	10		
66/ 65			.1	.3		.1		.1	.3	.1								10	10		
64/ 63		.1	.5	.6	.4	.5	.4	.1	.2		.1							34	34		
62/ 61		1.0	1.4	3.0	1.0	1.1	.3		.2									93	93	4	
60/ 59	.4	2.3	3.5	2.5	2.2	1.0	.5			.1								143	143	37	11
58/ 57	.5	4.8	3.5	2.9	1.6	.5	.4											163	163	71	41
56/ 55	1.0	8.6	6.3	1.8	.4	.6												213	213	172	76
54/ 53	1.1	12.9	5.7	2.0	.6	.4	.1											256	256	228	147
52/ 51	1.5	5.4	2.9	.7	.3	.3												125	125	290	209
50/ 49	.8	2.7	.5	.1		.1												48	48	182	214
48/ 47	.2	.6	.2	.1														12	12	88	153
46/ 45	.5	.2																8	8	36	90
44/ 43		.3																3	3	14	51
42/ 41																				6	44
40/ 39																					17
38/ 37																					13
36/ 35																					14
34/ 33																					9
32/ 31																					12
30/ 29																					14
28/ 27																					3
26/ 25																					2
24/ 23																					3
22/ 21																					3
18/ 17																					1
16/ 15																					1
TOTAL	6.038	8.824	6.614	4.0	6.8	4.6	2.0	1.1	.8	.4	.6	.1	.1					1128	1128	1128	1128

Element (X)	ΣX ²	ΣX	X̄	σ _x	Mean No. of Hours with Temperature							Total	
Rel. Hum.	7302371	88777	78.7	16.727	1128	≥ 67 F	≥ 67 F	≥ 67 F	≥ 67 F	≥ 67 F	≥ 93 F	Total	
Dry Bulb	3563182	63228	56.1	4.111	1128	11.9						672.0	
Wet Bulb	3087071	58883	52.2	3.436	1128							672.0	
Dew Point	2722079	54977	48.7	6.146	1128	23.2						672.0	

Mean No. of Hours with Temperature

No. Obs.

 σ_x \bar{x} Σx Σx^2

Element (X)

Total

≥93 F

≥80 F

≥73 F

≥67 F

≥52 F

≤0 F

11.9

23.2

1128

1128

1128

1128

672.0

672.0

672.0

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PSYCHROMETRIC SUMMARY

5117 PSYCHROMETRIC SUMMARY JAN 68

93117 SAN CLEMENTE, CALIFORNIA 73-77
STATION NAME YEARS MONTH
PAGE 1
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
72/ 71						.1	.1	.1	.1	.1	.2	.1						7	7			
70/ 69						.2	.1	.1	.1	.1	.1	.1						7	7			
68/ 67				.1	.1	.5	.2	.1	.2	.2	.1							17	17			
66/ 65				.4	1.0	.2	.3	.1	.1									25	25			
64/ 63			.1	1.8	1.1	.7	.1	.1	.2									49	49			
62/ 61			.8	2.7	2.4	1.2	.2	.2										89	89	2		
60/ 59	.1	.3	2.2	4.1	4.5	1.3												150	150	18	1	
58/ 57		1.5	3.4	4.5	2.0	.4		.1										143	143	69	6	
56/ 55	.7	5.2	9.3	3.6	.4													230	230	123	38	
54/ 53	1.2	7.3	11.7	3.2		.1												282	282	250	103	
52/ 51	.3	6.4	3.8	.8														137	137	345	169	
50/ 49	.4	2.1	1.2	.3														49	49	269	233	
48/ 47	.3	.3	.2															11	11	94	296	
46/ 45		.3																4	4	24	169	
44/ 43																				6	101	
42/ 41																					38	
40/ 39																					22	
38/ 37																					5	
36/ 35																					3	
34/ 33																					5	
32/ 31																					5	
30/ 29																					2	
28/ 27																					1	
26/ 25																					2	
24/ 23	3.1	23.5	32.8	21.5	11.5	4.7	.9	.5	.7	.2	.3	.2						1200	1200	1200	1200	
TOTAL																		1200		1200		

Mean No. of Hours with Temperature

≤ 0 F

≤ 32 F

≥ 67 F

≥ 73 F

≥ 80 F

≥ 93 F

Total

Element (X)	ΣX^2	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature	Total
Rel. Hum.	7031898	90360	75.3	13.783	1200		
Dry Bulb	3832052	67610	56.3	4.359	1200	18.6	720.0
Wet Bulb	3246093	62315	51.9	2.906	1200		720.0
Dew Point	2796256	57710	48.1	4.173	1200	6.6	720.0

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PSYCHROMETRIC SUMMARY

93117 STATION SAN CLEMENTE, CALIFORNIA 73-77 YEARS MAY MONTH

PAGE 1
HOURS (L.S.T.)

05

PSYCHROMETRIC SUMMARY

JAN 68

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Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb		Wet Bulb
76/ 75									.1									1	1		
74/ 73								.1										1	1		
72/ 71							.1											1	1		
70/ 69							.2											5	5		
68/ 67				.1	.4													11	11		
66/ 65				1.1	1.2	.3	.1											34	34		
64/ 63		.2	1.0	2.4	2.6	.2												80	80		
62/ 61	.1	1.0	1.5	4.0	4.2	.7												142	142	12	1
60/ 59	.3	1.9	4.3	6.4	1.9	.3	.1											189	189	65	17
58/ 57		4.1	10.9	4.2	.5													244	244	107	30
56/ 55	.6	8.6	14.8	2.2	.2													327	327	264	85
54/ 53	.8	7.1	3.9	1.0	.1													159	159	409	164
52/ 51	.1	2.1	.8	.1														38	38	292	337
50/ 49		.4	.1															6	6	72	332
48/ 47		.1																1	1	16	185
46/ 45			.1															1	1	2	41
44/ 43																				1	32
42/ 41																					13
40/ 39																					2
38/ 37																					1
TOTAL	1.925	6.37	32.15	1.1	1.1	2.3	.4		.1									1240	1240	1240	1240

Element (X)	Mean No. of Hours with Temperature						No. Obs.	TOTAL	
	≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F		Wet Bulb	Dew Point
Rel. Hum.							1240		
Dry Bulb							1240		
Wet Bulb							1240		
Dew Point							1240		

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1478 2097-54321

PSYCHROMETRIC SUMMARY

5889

PSYCHROMETRIC SUMMARY JAN 68

5889

93117

SAN CLEMENTE, CALIFORNIA

73-77

JUN

YEARS

PAGE 1

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
90/ 89													.1					1	1		
82/ 81									.1	.2								4	4		
80/ 79								.1	.1									2	2		
78/ 77							.2	.2										6	6		
76/ 75					.2	.3	.1	.1	.2									10	10		
74/ 73					.1	.3	.2	.1										8	8		
72/ 71			.2	.2	.7	.8	.2											25	25		
70/ 69		.1	.2	.3	1.4	.5	.2											33	33	1	
68/ 67		.1	.5	.8	3.1	.3												58	58	15	1
66/ 65		.2	1.0	3.9	3.7	.7	.2											116	116	17	1
64/ 63		.7	2.7	6.0	2.0	.2	.1											141	141	36	11
62/ 61		3.3	6.2	4.1	1.1	.5												185	185	72	21
60/ 59		.2	11.7	6.3	2.5	.2	.1											254	254	215	46
58/ 57		1.1	11.6	5.2	1.3	.1												231	231	369	195
56/ 55		1.4	4.4	2.6	.7	.2												112	112	285	346
54/ 53		.1	.8	.2														13	13	141	281
52/ 51		.1																1	1	39	147
50/ 49																			10	10	102
48/ 47																					19
46/ 45																					14
44/ 43																					7
42/ 41																					9
TOTAL	2.833	225.1	119.8	12.8	4.2	1.2	.3	.4					.1					1200	1200	1200	1200

Element (X)	Σ X ²	Σ X	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature					Total
						≤ 0 F	≥ 32 F	≥ 67 F	≥ 73 F	≥ 93 F	
Rel. Hum.	7597586	94372	78.6	12.110	1200						720.0
Dry Bulb	4559108	73750	61.5	4.706	1200			88.2	18.6	4.2	720.0
Wet Bulb	3957303	68813	57.3	3.067	1200			9.6			720.0
Dew Point	3556659	65203	54.3	3.392	1200			.6			720.0

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PSYCHROMETRIC SUMMARY

93117 STATION SAN CLEMENTE, CALIFORNIA 73-77 YEARS AUG MONTH

555 PSYCHROMETRIC SUMMARY JAN 68

PAGE 1
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
78/ 77					.1	.1												2	2		
76/ 75				.1	.5	.3	.1											12	12		
74/ 73		.1		.6	.6	.3												21	21		
72/ 71		.1	.1	1.7	2.3	.5												57	57	2	1
70/ 69		.4	.4	4.5	3.0	.6												111	111	8	2
68/ 67		.5	2.7	5.2	2.8	.1												139	139	21	10
66/ 65	.2	1.9	8.4	7.1	1.5													237	237	60	15
64/ 63	.2	8.2	10.6	3.4	.1													278	278	181	37
62/ 61	.7	11.6	7.8	.8														260	260	365	151
60/ 59	1.3	5.9	2.3	.2														120	120	410	377
58/ 57	.1	.1																2	2	177	337
56/ 55		.1																1	1	16	215
54/ 53																					80
52/ 51																					13
50/ 49																					2
TOTAL	2.4	28.9	32.2	23.6	10.9	1.9	.1											1240	1240	1240	1240
												</									

NAVWEASERVCOM

PSYCHROMETRIC SUMMARY

93117

SAN CLEMENTE, CALIFORNIA

73-77

OCT

YEARS

MONTH

STATION

STATION NAME

PAGE 1

HOURS (L.S.T.)

PSYCHROMETRIC SUMMARY JAN 68

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
86 / 85										.1		.2						3	3		
80 / 79										.1			.1					3	3		
78 / 77					.1	.1	.2		.1									5	5		
76 / 75				.1	.1	.2	.1			.1		.2						7	7		
74 / 73				.1	.5	.2	.1		.2	.1								13	13		
72 / 71			.1	.1	.9	.3	.2	.2	.3	.1								25	25	1	
70 / 69			.3	1.5	1.9	.7	.2	.2										57	57	2	
68 / 67	.1	.2	1.9	4.1	1.5	1.5	.3	.2										120	120	6	4
66 / 65		1.1	3.8	3.1	1.5	.2		.1										123	123	22	2
64 / 63	.6	6.3	6.6	5.0	1.5	.2		.1										251	251	102	26
62 / 61	1.9	9.5	4.4	3.0	.2													235	235	251	115
60 / 59	2.3	8.4	4.6	2.3	.1	.1												219	219	310	241
58 / 57	3.0	4.2	1.9	.4	.2													119	119	291	274
56 / 55	1.1	1.4	.6															38	38	173	215
54 / 53	.2	.9	.2															16	16	50	157
52 / 51		.4																5	5	21	111
50 / 49			.1															1	1	10	53
48 / 47																				1	22
46 / 45																					5
44 / 43																					4
42 / 41																					3
40 / 39																					4
38 / 37																					1
36 / 35																					2
34 / 33																					1
24 / 23																					1
TOTAL	9.1	32.3	24.4	19.6	8.2	3.4	1.0	.9	.2	.3		.3	.1	.1				1240	1240	1240	1240

Element (X)	ΣX ²	ΣX	\bar{X}	σ_x	No. Obs.	Mean No. of Hours with Temperature					Total
Rel. Hum.	8330064	100256	80.9	13.452	1240	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F
Dry Bulb	4909663	77833	62.8	4.419	1240				139.8	18.6	3.6
Wet Bulb	4322071	73109	59.0	3.066	1240				5.4		
Dew Point	3950053	69799	56.3	4.126	1240			.6	2.4		

Mean No. of Hours with Temperature

No. Obs.

 σ_x \bar{x} $\sum x$ $\sum x^2$

Element (X)

Rel. Hum.

Dry Bulb

Wet Bulb

Dew Point

Total

Total

NAVWEASERVCOM

PSYCHROMETRIC SUMMARY

93117
STATION

SAN CLEMENTE, CALIFORNIA
STATION NAME

73-77
YEARS

NOV
MONTH

PAGE 1
HOURS (L.S.T.)

05

PSYCHROMETRIC SUMMARY

JAN 68

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		Wet Bulb	Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.		
84/ 83												.1						1	1	
82/ 81												.2						4	4	
80/ 79												.2		.1				5	5	
78/ 77										.1	.2	.2		.1				2	2	
76/ 75						.1			.2	.2	.2	.2						12	12	
74/ 73						.1	.1	.2	.3	.1	.1	.1						6	6	
72/ 71			.1	.1	.2	.2	.5	.7	.1	.2	.2							17	17	2
70/ 69		.2	.2	.2	.8	.5	.7	.1	.1	.2	.1							34	34	2
68/ 67		.2	.4	1.1	.5	.5	.5	.1	.1		.1							41	41	2
66/ 65		.1	.9	1.6	1.3	1.0	.2	.1										63	63	5
64/ 63	.1	.7	1.3	3.7	1.4	1.1	.5	.3	.2	.2								113	113	19
62/ 61		3.3	3.2	3.2	1.6	.2	.2	.3										147	147	52
60/ 59	.7	4.6	5.3	2.8	1.0	.5	.1											190	180	122
58/ 57	.9	5.5	5.4	1.9	.7	.3	.2											179	179	212
56/ 55	.5	7.6	3.7	.7	.4	.3	.3	.1										164	164	232
54/ 53	1.1	4.3	2.4	1.2	.5	.2												118	118	225
52/ 51	.4	2.2	1.6	.8	.2	.1												63	63	128
50/ 49	.3	1.0	.6	.3														27	27	83
48/ 47	.1	.7	.2			.1												13	13	62
46/ 45	.4	.3																9	9	40
44/ 43	.1	.1																2	2	13
42/ 41																				2
40/ 39																				1
38/ 37																				27
36/ 35																				15
34/ 33																				10
32/ 31																				7
30/ 29																				6
28/ 27																				8
26/ 25																				2
24/ 23																				4
20/ 19																				3
TOTAL	4.630	725.2	17.8	8.7	5.2	2.8	1.5	1.0	1.0	.7	1.0	.7		.2				1200	1200	1200

Mean No. of Hours with Temperature

No. Obs.

σ_x

\bar{x}

Σx

Σx^2

Element (X)

Rel. Hum.

Dry Bulb

Wet Bulb

Dew Point

≥ 93 F

≥ 80 F

≥ 73 F

≤ 0 F

≤ 32 F

≥ 67 F

73.2

18.0

3.0

2.4

1.2

Total

720.0

720.0

720.0

720.0

720.0

720.0

720.0

720.0

720.0

720.0

720.0

720.0

720.0

720.0

NAVWEASERVCOM

PSYCHROMETRIC SUMMARY

5800

PSYCHROMETRIC SUMMARY JAN 68

DEC
MONTH

YEARS

73-77

SAN CLEMENTE, CALIFORNIA
STATION NAME

93117
STATION

PAGE 1
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL D.B./W.B.	TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	Dry Bulb		Wet Bulb	Dew Point
78/ 77																		1	1		
74/ 73									.1									1	1		
72/ 71								.1		.2	.1							4	4		
70/ 69								.1	.2	.3	.1							3	3		
68/ 67					.1	.1	.1	.3	.2	.2								9	9		
66/ 65			.1	.5	.2	.6	.2	.3	.2	.2								27	27		
64/ 63			.7	1.7	1.5	.6	.5	.2										64	64		
62/ 61		.7	2.5	3.3	1.1	.6	.2											104	104	4	
60/ 59	.2	2.9	3.0	2.7	.5	.4	.2	.2										123	123	38	
58/ 57	.2	4.9	5.8	2.4	1.0	.4	.3	.1	.2									191	191	5	
56/ 55	.2	8.5	5.1	1.5	.5	.3	.2	.2	.1									203	203	122	
54/ 53	.9	8.7	4.3	.9	.5	.2												192	192	96	
52/ 51	1.0	7.7	2.9	.2	.5	.5												153	153	246	
50/ 49	1.3	3.4	1.1	.2	.1	.1	.1											77	77	231	
48/ 47	.7	2.4	.5	.2	.1													43	43	241	
46/ 45	.2	1.0	.1															16	16	224	
44/ 43	.1	.7																10	10	98	
42/ 41	.2																	2	2	171	
40/ 39																				53	
38/ 37																				101	
36/ 35																				61	
34/ 33																				48	
32/ 31																				20	
30/ 29																				8	
28/ 27																				10	
26/ 25																				7	
24/ 23																				6	
22/ 21																				7	
20/ 19																				5	
16/ 15																				2	
TOTAL	4.8	41.0	26.0	13.4	5.6	4.0	2.3	1.4	.8	.3	.2	.1						1240	1240	1240	

Element (X)	Σ X ²	Σ X	X̄	σ _x	No. Obs.	Mean No. of Hours with Temperature					Total
Rel. Hum.	8125988	98444	79.4	15.830	1240	≤ 0 F	≤ 32 F	≤ 67 F	≥ 73 F	≥ 93 F	Total
Dry Bulb	3899382	69264	55.9	4.955	1240			13.8	1.2		744.0
Wet Bulb	3390286	64652	52.1	3.958	1240						744.0
Dew Point	3003462	60596	48.9	5.841	1240		18.6				744.0

Mean No. of Hours with Temperature

No. Obs.

σ_x

\bar{x}

$\sum x$

$\sum x^2$

Element (X)

Rel. Hum.

Dry Bulb

Wet Bulb

Dew Point

≥ 67 F

≥ 32 F

≤ 0 F

≥ 73 F

≥ 80 F

≥ 93 F

Total

744.0

744.0

744.0

18.6

13.0

1.2

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MEANS AND STANDARD DEVIATIONS

5707 MEANS AND STANDARD DEVIATIONS JAN 68

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

73-77

SAN CLEMENTE, CALIFORNIA

93117

STATION NAME YEARS

HRS.(LST.)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN 52.1 S. D. 4.526 TOTAL OBS 155	53.7 2.878 141	52.7 2.382 155	53.1 2.355 150	55.0 2.115 155	58.4 3.279 150	60.5 2.908 155	62.2 1.834 155	62.5 2.443 150	59.9 3.054 155	56.2 3.939 150	52.8 3.584 155	56.6 4.830 1826
04	MEAN 51.7 S. D. 4.750 TOTAL OBS 155	53.3 2.980 141	52.1 2.793 155	52.5 2.316 150	54.6 2.032 155	58.1 2.932 150	60.1 2.930 155	61.9 1.950 155	62.1 2.298 150	59.6 3.011 155	55.4 4.254 150	52.5 3.754 155	56.2 4.918 1826
07	MEAN 51.5 S. D. 4.636 TOTAL OBS 155	53.3 2.885 141	53.1 2.629 155	54.9 2.581 150	56.7 1.996 155	60.2 3.584 150	62.0 3.241 155	63.1 2.178 155	63.6 3.393 150	60.9 2.966 155	56.0 4.383 150	52.7 3.549 155	57.3 5.330 1826
10	MEAN 59.3 S. D. 5.517 TOTAL OBS 155	58.9 3.051 141	58.1 3.064 155	59.3 3.168 150	60.2 2.693 155	64.0 4.506 150	66.2 4.164 155	67.1 2.972 155	67.1 4.177 150	65.7 3.496 155	63.3 5.173 150	59.2 3.890 155	62.4 5.178 1826
13	MEAN 61.0 S. D. 5.346 TOTAL OBS 155	60.6 3.326 141	60.0 3.694 155	61.6 3.764 150	62.1 2.883 155	65.9 4.388 150	68.1 3.903 155	69.0 2.910 155	68.9 4.386 150	67.6 4.122 155	65.2 5.278 150	61.4 3.896 155	64.3 5.263 1826
16	MEAN 59.3 S. D. 5.004 TOTAL OBS 155	59.4 3.463 141	58.9 3.359 155	60.4 3.426 150	61.1 2.617 155	64.8 4.137 150	67.0 3.642 155	68.0 2.990 155	67.5 4.239 150	65.9 3.916 155	63.1 5.051 150	59.6 3.602 155	62.9 5.131 1826
19	MEAN 53.9 S. D. 3.863 TOTAL OBS 155	55.1 2.392 141	54.4 2.004 155	55.2 2.492 150	57.1 2.153 155	60.8 3.776 150	63.1 3.011 155	64.1 2.156 155	64.1 2.651 150	61.9 2.699 155	58.0 3.841 150	54.7 3.338 155	58.6 4.834 1826
22	MEAN 52.7 S. D. 4.184 TOTAL OBS 155	54.2 2.628 141	53.5 2.077 155	53.8 2.084 150	55.7 1.964 155	59.5 3.329 150	61.4 2.916 155	62.8 1.842 155	63.1 2.416 150	60.6 2.991 155	56.8 3.742 150	53.9 3.420 155	57.3 4.738 1826
ALL HOURS	MEAN 55.2 S. D. 6.038 TOTAL OBS 1240	56.1 4.112 1128	55.4 4.053 1240	56.3 4.360 1200	57.8 3.600 1240	61.5 4.706 1200	63.5 4.447 1240	64.8 3.571 1240	64.9 4.125 1200	62.8 4.419 1240	59.3 5.815 1200	55.9 4.956 1240	59.5 5.866 14608

MEANS AND STANDARD DEVIATIONS

5707 MEANS AND STANDARD DEVIATIONS JAN 68

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

93117 SAN CLEMENTE, CALIFORNIA 73-77

STATION

STATION NAME

YEARS

HRS.(LST.)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN 49.0 S. D. 4.006 TOTAL OBS 155	MEAN 51.2 S. D. 3.225 TOTAL OBS 141	MEAN 50.0 S. D. 2.725 TOTAL OBS 153	MEAN 50.5 S. D. 2.351 TOTAL OBS 150	MEAN 52.5 S. D. 2.314 TOTAL OBS 155	MEAN 56.1 S. D. 2.735 TOTAL OBS 150	MEAN 58.4 S. D. 2.584 TOTAL OBS 155	MEAN 59.9 S. D. 1.754 TOTAL OBS 155	MEAN 60.1 S. D. 1.957 TOTAL OBS 150	MEAN 57.9 S. D. 3.097 TOTAL OBS 155	MEAN 53.4 S. D. 3.957 TOTAL OBS 150	MEAN 50.4 S. D. 3.558 TOTAL OBS 155	MEAN 54.1 S. D. 4.933 TOTAL OBS 1824
04	MEAN 48.5 S. D. 4.046 TOTAL OBS 155	MEAN 50.9 S. D. 3.215 TOTAL OBS 141	MEAN 49.4 S. D. 2.982 TOTAL OBS 153	MEAN 50.0 S. D. 2.411 TOTAL OBS 150	MEAN 52.3 S. D. 2.254 TOTAL OBS 155	MEAN 56.1 S. D. 2.833 TOTAL OBS 150	MEAN 58.2 S. D. 2.575 TOTAL OBS 155	MEAN 59.7 S. D. 1.867 TOTAL OBS 155	MEAN 59.9 S. D. 2.243 TOTAL OBS 150	MEAN 57.6 S. D. 3.110 TOTAL OBS 155	MEAN 52.5 S. D. 4.141 TOTAL OBS 150	MEAN 50.2 S. D. 3.683 TOTAL OBS 155	MEAN 53.8 S. D. 5.066 TOTAL OBS 1824
07	MEAN 48.4 S. D. 4.082 TOTAL OBS 155	MEAN 50.6 S. D. 3.371 TOTAL OBS 141	MEAN 50.3 S. D. 2.989 TOTAL OBS 154	MEAN 51.7 S. D. 2.678 TOTAL OBS 150	MEAN 53.8 S. D. 2.222 TOTAL OBS 155	MEAN 57.5 S. D. 3.166 TOTAL OBS 150	MEAN 59.4 S. D. 2.743 TOTAL OBS 155	MEAN 60.3 S. D. 2.013 TOTAL OBS 155	MEAN 60.7 S. D. 2.146 TOTAL OBS 150	MEAN 58.5 S. D. 2.970 TOTAL OBS 155	MEAN 52.7 S. D. 4.094 TOTAL OBS 150	MEAN 50.2 S. D. 3.492 TOTAL OBS 155	MEAN 54.5 S. D. 5.279 TOTAL OBS 1825
10	MEAN 53.2 S. D. 3.816 TOTAL OBS 155	MEAN 54.1 S. D. 3.035 TOTAL OBS 141	MEAN 52.6 S. D. 3.032 TOTAL OBS 153	MEAN 53.4 S. D. 2.421 TOTAL OBS 150	MEAN 55.1 S. D. 2.388 TOTAL OBS 155	MEAN 58.5 S. D. 3.003 TOTAL OBS 150	MEAN 61.0 S. D. 2.860 TOTAL OBS 155	MEAN 62.1 S. D. 2.467 TOTAL OBS 155	MEAN 62.0 S. D. 2.198 TOTAL OBS 150	MEAN 60.3 S. D. 2.918 TOTAL OBS 155	MEAN 56.6 S. D. 3.987 TOTAL OBS 150	MEAN 54.5 S. D. 3.406 TOTAL OBS 155	MEAN 57.0 S. D. 4.591 TOTAL OBS 1824
13	MEAN 53.4 S. D. 3.508 TOTAL OBS 155	MEAN 54.1 S. D. 3.127 TOTAL OBS 141	MEAN 52.9 S. D. 2.996 TOTAL OBS 153	MEAN 54.1 S. D. 2.748 TOTAL OBS 150	MEAN 55.8 S. D. 2.520 TOTAL OBS 155	MEAN 58.9 S. D. 2.914 TOTAL OBS 150	MEAN 61.5 S. D. 2.891 TOTAL OBS 155	MEAN 62.5 S. D. 2.592 TOTAL OBS 155	MEAN 62.2 S. D. 2.282 TOTAL OBS 150	MEAN 60.6 S. D. 2.870 TOTAL OBS 155	MEAN 57.3 S. D. 3.840 TOTAL OBS 150	MEAN 54.9 S. D. 3.436 TOTAL OBS 155	MEAN 57.4 S. D. 4.583 TOTAL OBS 1824
16	MEAN 52.7 S. D. 3.684 TOTAL OBS 155	MEAN 53.4 S. D. 3.304 TOTAL OBS 141	MEAN 52.3 S. D. 3.032 TOTAL OBS 153	MEAN 53.7 S. D. 2.762 TOTAL OBS 150	MEAN 55.2 S. D. 2.414 TOTAL OBS 155	MEAN 58.4 S. D. 2.895 TOTAL OBS 150	MEAN 61.0 S. D. 2.934 TOTAL OBS 155	MEAN 62.0 S. D. 2.691 TOTAL OBS 155	MEAN 61.4 S. D. 2.327 TOTAL OBS 150	MEAN 59.9 S. D. 2.765 TOTAL OBS 155	MEAN 56.5 S. D. 3.741 TOTAL OBS 150	MEAN 54.0 S. D. 3.399 TOTAL OBS 155	MEAN 56.7 S. D. 4.631 TOTAL OBS 1824
19	MEAN 50.1 S. D. 3.830 TOTAL OBS 155	MEAN 51.6 S. D. 3.070 TOTAL OBS 141	MEAN 50.4 S. D. 2.522 TOTAL OBS 153	MEAN 51.1 S. D. 2.367 TOTAL OBS 150	MEAN 53.3 S. D. 2.235 TOTAL OBS 155	MEAN 56.7 S. D. 2.777 TOTAL OBS 150	MEAN 59.2 S. D. 2.477 TOTAL OBS 155	MEAN 60.3 S. D. 2.196 TOTAL OBS 155	MEAN 60.4 S. D. 2.244 TOTAL OBS 150	MEAN 58.7 S. D. 2.583 TOTAL OBS 155	MEAN 54.3 S. D. 3.960 TOTAL OBS 150	MEAN 51.6 S. D. 3.499 TOTAL OBS 155	MEAN 54.8 S. D. 4.804 TOTAL OBS 1824
22	MEAN 49.6 S. D. 3.730 TOTAL OBS 155	MEAN 51.7 S. D. 3.016 TOTAL OBS 141	MEAN 50.3 S. D. 2.456 TOTAL OBS 153	MEAN 50.8 S. D. 2.177 TOTAL OBS 150	MEAN 52.9 S. D. 2.092 TOTAL OBS 155	MEAN 56.7 S. D. 2.741 TOTAL OBS 150	MEAN 59.0 S. D. 2.465 TOTAL OBS 155	MEAN 60.2 S. D. 1.791 TOTAL OBS 155	MEAN 60.4 S. D. 2.002 TOTAL OBS 150	MEAN 58.2 S. D. 2.735 TOTAL OBS 155	MEAN 53.7 S. D. 3.879 TOTAL OBS 150	MEAN 51.2 S. D. 3.431 TOTAL OBS 155	MEAN 54.6 S. D. 4.796 TOTAL OBS 1824
ALL HOURS	MEAN 50.6 S. D. 4.324 TOTAL OBS 1240	MEAN 52.2 S. D. 3.436 TOTAL OBS 1128	MEAN 51.0 S. D. 3.113 TOTAL OBS 1225	MEAN 51.9 S. D. 2.906 TOTAL OBS 1200	MEAN 53.9 S. D. 2.623 TOTAL OBS 1240	MEAN 57.3 S. D. 3.067 TOTAL OBS 1200	MEAN 59.7 S. D. 2.944 TOTAL OBS 1240	MEAN 60.9 S. D. 2.431 TOTAL OBS 1240	MEAN 60.9 S. D. 2.318 TOTAL OBS 1200	MEAN 59.0 S. D. 3.066 TOTAL OBS 1240	MEAN 54.6 S. D. 4.321 TOTAL OBS 1200	MEAN 52.1 S. D. 3.959 TOTAL OBS 1240	MEAN 55.4 S. D. 5.018 TOTAL OBS 14593

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MEANS AND STANDARD DEVIATIONS

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DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

73-77

SAN CLEMENTE, CALIFORNIA

93117

STATION

STATION NAME

YEARS

HRS.(LST.)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN 45.9 S. D. 6.044 TOTAL OBS 155	49.0 47.5 3.977 5.215 141 155	47.0 47.0 4.324 5.672 141 155	48.2 48.2 3.449 5.215 150 155	50.5 50.5 2.940 5.215 155 155	54.4 54.4 3.185 5.215 150 155	57.0 57.0 2.735 5.215 155 155	58.4 58.4 2.273 5.215 155 155	58.5 58.5 3.041 5.215 150 155	56.4 56.4 3.823 5.215 155 155	51.0 51.0 5.590 5.215 150 155	48.3 48.3 5.331 5.215 155 155	52.1 52.1 6.025 5.215 1824 1824
04	MEAN 45.5 S. D. 6.156 TOTAL OBS 155	48.7 47.0 4.324 5.672 141 155	47.0 47.0 4.324 5.672 141 155	48.0 48.0 3.420 5.215 150 155	50.4 50.4 2.977 5.215 155 155	54.6 54.6 3.317 5.215 150 155	56.9 56.9 2.797 5.215 155 155	58.2 58.2 2.372 5.215 155 155	58.5 58.5 3.191 5.215 150 155	56.3 56.3 3.786 5.215 155 155	50.0 50.0 6.052 5.215 150 155	48.1 48.1 5.454 5.215 155 155	51.9 51.9 6.250 5.215 1824 1824
07	MEAN 45.3 S. D. 6.360 TOTAL OBS 155	48.1 47.7 4.728 5.215 141 155	47.7 47.7 4.728 5.215 141 155	49.0 49.0 4.238 5.215 150 155	51.4 51.4 3.132 5.215 155 155	55.4 55.4 3.708 5.215 150 155	57.7 57.7 3.120 5.215 155 155	58.6 58.6 2.571 5.215 155 155	58.9 58.9 3.730 5.215 150 155	56.9 56.9 4.020 5.215 155 155	49.8 49.8 6.225 5.215 150 155	47.9 47.9 5.402 5.215 155 155	52.2 52.2 6.601 5.215 1825 1825
10	MEAN 47.7 S. D. 7.029 TOTAL OBS 155	49.8 47.7 5.376 6.573 141 155	47.7 47.7 5.376 6.573 141 155	48.4 48.4 4.475 5.215 150 155	51.1 51.1 3.456 5.215 155 155	54.5 54.5 3.426 5.215 150 155	57.6 57.6 3.182 5.215 155 155	58.9 58.9 2.862 5.215 155 155	58.7 58.7 4.092 5.215 150 155	56.6 56.6 4.646 5.215 155 155	51.1 51.1 7.316 5.215 150 155	50.5 50.5 6.195 5.215 155 155	52.7 52.7 6.550 5.215 1824 1824
13	MEAN 46.5 S. D. 7.040 TOTAL OBS 155	48.2 46.6 5.468 7.583 141 155	46.6 46.6 5.468 7.583 141 155	47.7 47.7 5.190 5.215 150 155	50.8 50.8 3.727 5.215 155 155	54.0 54.0 3.522 5.215 150 155	57.3 57.3 3.319 5.215 155 155	58.3 58.3 3.164 5.215 155 155	57.9 57.9 3.740 5.215 150 155	55.7 55.7 5.205 5.215 155 155	50.9 50.9 7.599 5.215 150 155	49.3 49.3 6.970 5.215 155 155	51.9 51.9 6.931 5.215 1824 1824
16	MEAN 46.6 S. D. 6.687 TOTAL OBS 155	48.1 46.4 5.322 7.137 141 155	46.4 46.4 5.322 7.137 141 155	47.8 47.8 4.894 5.215 150 155	50.6 50.6 3.380 5.215 155 155	53.8 53.8 3.306 5.215 150 155	57.1 57.1 3.339 5.215 155 155	58.1 58.1 3.293 5.215 155 155	57.4 57.4 4.027 5.215 150 155	55.7 55.7 4.061 5.215 155 155	51.2 51.2 6.597 5.215 150 155	49.0 49.0 6.785 5.215 155 155	51.8 51.8 6.628 5.215 1824 1824
19	MEAN 46.4 S. D. 6.319 TOTAL OBS 155	48.5 46.7 4.057 5.525 141 155	46.7 46.7 4.057 5.525 141 155	47.3 47.3 3.932 5.215 150 155	50.2 50.2 2.916 5.215 155 155	53.5 53.5 3.289 5.215 150 155	56.6 56.6 2.853 5.215 155 155	57.9 57.9 2.733 5.215 155 155	57.9 57.9 3.975 5.215 150 155	56.3 56.3 3.657 5.215 155 155	51.2 51.2 5.944 5.215 150 155	49.0 49.0 4.994 5.215 155 155	51.8 51.8 6.074 5.215 1824 1824
22	MEAN 46.7 S. D. 5.305 TOTAL OBS 155	49.5 47.6 3.682 4.565 141 155	47.6 47.6 3.682 4.565 141 155	48.3 48.3 3.231 5.215 150 155	50.6 50.6 2.598 5.215 155 155	54.6 54.6 3.070 5.215 150 155	57.4 57.4 2.606 5.215 155 155	58.5 58.5 2.202 5.215 155 155	58.5 58.5 2.868 5.215 150 155	56.5 56.5 3.489 5.215 155 155	51.1 51.1 5.754 5.215 150 155	48.9 48.9 4.935 5.215 155 155	52.4 52.4 5.749 5.215 1824 1824
ALL HOURS	MEAN 46.3 S. D. 6.412 TOTAL OBS 1240	48.7 47.1 4.679 6.147 1128 1240	47.1 47.1 4.679 6.147 1128 1240	48.1 48.1 4.174 5.215 1200 1240	50.7 50.7 3.171 5.215 1240 1240	54.3 54.3 3.393 5.215 1200 1240	57.2 57.2 3.015 5.215 1240 1240	58.4 58.4 2.719 5.215 1240 1240	58.3 58.3 3.630 5.215 1200 1240	56.3 56.3 4.127 5.215 1240 1240	50.8 50.8 6.423 5.215 1200 1240	48.9 48.9 5.841 5.215 1240 1240	52.1 52.1 6.367 5.215 14593 14593

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	01	100.0	100.0	99.4	97.4	91.6	89.7	78.1	60.6	36.1	81.4	155
	04	100.0	100.0	98.7	96.1	92.3	87.1	81.3	63.9	40.0	81.6	155
	07	100.0	100.0	98.7	96.8	90.3	85.8	76.8	62.6	40.6	81.7	155
	10	100.0	98.7	95.5	89.0	81.9	68.4	52.3	31.6	10.3	68.9	155
	13	100.0	98.7	91.6	84.5	76.8	56.8	35.5	14.8	4.5	62.3	155
	16	100.0	99.4	95.5	89.7	81.3	63.9	42.6	18.1	5.8	65.4	155
	19	100.0	100.0	98.1	96.8	92.9	87.7	76.8	51.0	14.2	77.6	155
	22	100.0	100.0	100.0	98.1	93.5	91.0	78.7	59.4	31.6	81.4	155
TOTALS		100.0	99.6	97.2	93.6	87.6	78.8	65.3	45.3	22.9	75.0	1240

RELATIVE HUMIDITY

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STATION NAME
SAN CLEMENTE, CALIFORNIA

93117
STATION

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	01	100.0	100.0	99.3	99.3	95.7	92.2	90.8	71.6	41.1	85.4	141
	04	100.0	100.0	98.6	98.6	94.3	92.2	88.7	74.5	47.5	86.2	141
	07	100.0	100.0	99.3	95.7	93.6	89.4	84.4	75.2	42.6	84.4	141
	10	100.0	99.3	97.2	94.3	90.8	80.9	69.5	41.1	7.8	74.2	141
	13	100.0	97.2	95.0	90.1	83.7	69.5	44.0	21.3	5.7	66.5	141
	16	100.0	97.9	95.0	93.6	89.4	78.0	49.6	20.6	5.0	68.8	141
	19	100.0	100.0	99.3	97.9	95.0	92.9	81.6	53.2	15.6	79.4	141
	22	100.0	100.0	100.0	100.0	97.9	95.0	91.5	69.5	31.9	84.8	141

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAR	01	100.0	100.0	100.0	100.0	99.3	99.3	90.2	60.1	15.7	82.9	153
	04	100.0	100.0	100.0	99.3	98.7	96.7	88.9	65.4	20.9	83.3	153
	07	100.0	100.0	100.0	99.4	96.8	95.5	87.0	65.6	25.3	82.9	154
	10	100.0	100.0	98.7	96.7	93.5	81.7	52.9	17.6	3.9	69.8	153
	13	100.0	100.0	97.4	96.1	84.3	58.2	26.8	6.5	.7	62.9	153
	16	100.0	100.0	98.7	96.1	90.2	61.4	32.0	7.2	1.3	64.3	153
	19	100.0	100.0	100.0	100.0	98.7	92.2	74.5	29.4	3.3	75.7	153
	22	100.0	100.0	100.0	100.0	98.7	96.7	88.9	52.3	10.5	80.9	153
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RELATIVE HUMIDITY

STATION
93117

SAN CLEMENTE, CALIFORNIA

73-77

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STATION NAME

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	01	100.0	100.0	100.0	100.0	100.0	100.0	98.1	72.9	19.4	85.0	155
	04	100.0	100.0	100.0	100.0	100.0	100.0	96.6	75.5	29.0	85.9	155
	07	100.0	100.0	100.0	100.0	100.0	100.0	94.2	59.4	15.5	82.9	155
	10	100.0	100.0	100.0	100.0	98.7	90.3	56.1	19.4	3.9	72.5	155
	13	100.0	100.0	100.0	99.4	97.4	76.1	29.0	8.4	1.9	67.1	155
	16	100.0	100.0	100.0	100.0	100.0	83.9	34.2	9.7	.6	69.0	155
	19	100.0	100.0	100.0	100.0	100.0	100.0	84.5	33.5	1.9	77.6	155
	22	100.0	100.0	100.0	100.0	100.0	100.0	98.1	62.6	7.7	83.0	155
TOTALS		100.0	100.0	100.0	99.9	99.5	93.7	73.9	42.7	10.0	77.9	1240

RELATIVE HUMIDITY

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MONTH

73-77

PERIOD

SAN CLEMENTE, CALIFORNIA

STATION NAME

93117

STATION

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	01	100.0	100.0	100.0	100.0	100.0	100.0	99.4	92.9	34.2	88.8	155
	04	100.0	100.0	100.0	100.0	100.0	100.0	99.4	92.9	39.4	89.5	155
	07	100.0	100.0	100.0	100.0	100.0	100.0	94.8	78.1	29.7	86.1	155
	10	100.0	100.0	100.0	99.4	98.7	94.2	65.8	27.1	4.5	74.6	155
	13	100.0	100.0	100.0	100.0	99.4	89.7	35.5	7.7	1.9	68.9	155
	16	100.0	100.0	100.0	100.0	100.0	94.2	49.0	12.9		71.0	155
	19	100.0	100.0	100.0	100.0	100.0	99.4	89.0	51.6	9.0	80.1	155
	22	100.0	100.0	100.0	100.0	100.0	100.0	97.4	89.0	23.2	87.2	155
TOTALS		100.0	100.0	100.0	98.9	98.8	97.2	78.8	56.5	17.7	80.8	1240

RELATIVE HUMIDITY

STATION 93117

STATION NAME
SAN CLEMENTE, CALIFORNIA

73-77

SEP
MONTH

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
SEP	01	100.0	100.0	100.0	99.3	98.0	97.3	94.0	86.7	32.7	87.4	150
	04	100.0	100.0	100.0	99.3	99.3	98.0	95.3	86.0	38.7	88.4	150
	07	100.0	99.3	98.7	98.7	98.0	97.3	94.0	80.0	33.3	86.0	150
	10	100.0	99.3	98.7	97.3	97.3	94.7	73.3	39.3	6.0	76.0	150
	13	100.0	99.3	98.0	96.7	95.3	88.0	48.7	16.7	.7	69.5	150
	16	100.0	98.7	98.7	97.3	96.0	92.0	58.0	20.0	2.0	71.6	150
	19	100.0	99.3	99.3	98.7	98.0	98.0	91.3	61.3	12.7	81.4	150
	22	100.0	100.0	100.0	99.3	99.3	98.0	94.0	81.3	26.7	85.7	150
TOTALS		100.0	99.5	99.2	98.3	97.7	95.6	81.1	58.9	19.1	80.8	1200

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
OCT	01	100.0	100.0	100.0	100.0	100.0	98.7	95.5	81.9	42.6	88.7	155
	04	100.0	100.0	100.0	100.0	99.4	98.7	96.8	84.5	38.7	89.5	155
	07	100.0	100.0	100.0	99.4	98.7	98.1	95.5	80.0	36.8	87.3	155
	10	100.0	100.0	98.7	97.4	96.1	91.0	60.6	31.0	4.5	73.6	155
	13	100.0	99.4	97.4	96.1	91.6	78.7	41.3	12.9	1.3	67.3	155
	16	100.0	100.0	99.4	97.4	94.8	83.9	55.5	23.9	3.2	71.0	155
	19	100.0	100.0	100.0	99.4	98.7	97.4	89.0	65.8	16.1	82.7	155
	22	100.0	100.0	100.0	100.0	98.7	98.1	95.5	80.6	26.5	86.8	155
TOTALS		100.0	99.9	99.4	98.7	97.3	93.1	78.7	57.6	21.2	80.9	1240

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RELATIVE HUMIDITY

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STATION

SAN CLEMENTE, CALIFORNIA

73-77

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MONTHCUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	99.6	97.2	93.6	87.6	78.8	65.3	45.3	22.9	75.0	1240
FEB		100.0	99.3	98.0	96.2	92.6	86.3	75.0	53.4	24.7	78.7	1128
MAR		100.0	100.0	99.4	98.5	95.0	85.2	67.7	38.0	10.2	75.3	1225
APR		100.0	99.8	99.2	98.3	95.9	86.6	66.3	35.8	11.7	75.3	1200
MAY		100.0	100.0	100.0	99.9	99.5	93.7	73.9	42.7	10.0	77.9	1240
JUN		100.0	100.0	99.9	99.8	98.3	92.2	71.5	51.0	13.4	78.6	1200
JUL		100.0	100.0	100.0	99.9	99.8	97.2	78.8	56.5	17.7	80.8	1240
AUG		100.0	100.0	100.0	100.0	99.9	98.6	82.3	56.9	13.6	80.5	1240
SEP		100.0	99.5	99.2	98.3	97.7	95.4	81.1	58.9	19.1	80.8	1200
OCT		100.0	99.9	99.4	98.7	97.3	93.1	78.7	57.6	21.2	80.9	1240
NOV		100.0	99.7	97.7	94.9	90.6	83.4	69.2	47.9	20.0	76.2	1200
DEC		100.0	99.9	99.0	96.9	92.7	87.1	78.4	56.6	23.5	79.4	1240
TOTALS		100.0	99.8	99.1	97.9	95.6	89.8	74.0	50.1	17.3	78.3	14593

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

WIND DIRECTION

93117 SAN CLEMENTE, CALIFORNIA

JAN 1973-DEC 1977

JANUARY ALL

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81											
72 TO 76											
67 TO 71											
62 TO 66											
57 TO 61											
52 TO 56											
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	10.1	5.3	0.4	6.0	11.1	9.8	13.7	20.7	14.8	124.0	100.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

WIND DIRECTION

93117 STATION NAME
SAN CLEMENTE, CALIFORNIA

JAN 1973-DEC 1977 YEARS

FEBRUARY MONTH
ALL HOURS (L.S.T.)

STATION NAME

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81											
72 TO 76											
67 TO 71	21.1	26.3	15.3			26.3		5.3	5.3	1	.1
62 TO 66	15.9	15.9	4.5	6.8		14.8	17.0	18.2	4.5	19	1.7
57 TO 61	12.1	2.3	7.9	8.2	10.4	11.8	19.2	20.0	8.2	88	7.8
52 TO 56	7.1	2.8	5.1	5.7	7.3	11.2	18.2	20.0	14.7	353	31.5
47 TO 51	3.6	5.6	6.7	3.4	23.6	5.6	12.4	10.1	29.2	563	50.1
42 TO 46			18.2	63.6	9.1				9.1	89	7.9
37 TO 41										11	1.0
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	9.2	2.7	7.5	6.3	9.9	11.4	17.5	22.6	12.6	1128	100.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

WIND DIRECTION

STATION NAME
SAN CLEMENTE, CALIFORNIA

YEARS
JAN 1973-DEC 1977

MONTH
MARCH

ALL

HOURS (L.S.T.)

STATION NAME

YEARS

MONTH

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ESE & E	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+												
117 TO 121												
112 TO 116												
107 TO 111												
102 TO 106												
97 TO 101												
92 TO 96												
87 TO 91												
82 TO 86												
77 TO 81												
72 TO 76	33.3			15.4			15.4	33.3	7.7	33.3	3	.2
67 TO 71	46.2			5.6	9.9	5.6	11.3	29.6	26.8	15.4	13	1.0
62 TO 66	9.9			2.4	1.2	7.3	10.3	35.3	29.7	1.4	71	5.7
57 TO 61	9.1	1.8		1.7	.9	5.5	9.7	31.4	35.9	2.7	330	26.6
52 TO 56	6.3	1.5		1.7	.9	5.5	9.7	31.4	35.9	6.9	649	52.3
47 TO 51	9.4	3.1		3.1	3.8	5.0	5.6	13.8	33.8	22.5	160	12.9
42 TO 46	7.7	7.7		7.7	7.7	7.7	15.4		7.7	53.8	13	1.0
37 TO 41										100.0	1	.1
32 TO 36												
27 TO 31												
22 TO 26												
17 TO 21												
12 TO 16												
7 TO 11												
2 TO 6												
-3 TO 1												
-8 TO -4												
-13 TO -9												
-18 TO -14												
-23 TO -19												
-28 TO -24												
-33 TO -29												
-38 TO -34												
-43 TO -39												
-48 TO -44												
-53 TO -49												
-58 TO -54												
-59 & LWR												
TOTALS	8.1	1.7	2.3	1.9	5.9	9.5	29.4	32.7	8.2	1240	100.0	

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

WIND DIRECTION

93117
STATION

SAN CLEMENTE, CALIFORNIA

JAN 1973-DEC 1977

STATION NAME

YEARS

APRIL

MONTH

ALL

HOURS L.S.T.

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81											
72 TO 76	25.0	25.0	7.4		7.4	11.1	50.0	22.2		4	.3
67 TO 71	14.8	14.8	6.4		2.4	25.6	33.6	20.0	1.6	27	2.3
62 TO 66	8.8	1.6			4.5	13.9	36.6	32.9	1.3	125	10.4
57 TO 61	7.3	1.8	.6	.9	5.7	9.2	34.8	34.7	9.3	331	27.6
52 TO 56	2.2	1.0	2.3	.8	11.0	8.3	27.5	25.7	19.3	600	50.0
47 TO 51	.9		6.4	.9	50.0				25.0	109	9.1
42 TO 46			25.0							4	.3
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LVR											
TOTALS	4.5	1.6	2.8	.8	5.7	12.1	34.2	31.3	7.1	1200	100.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

93117
STATION

SAN CLEMENTE, CALIFORNIA

JAN 1973-DEC 1977

MAY

ALL
HOURS (L.S.T.)

TEMP.	NW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81											
72 TO 76	50.0					50.0				2	.2
67 TO 71	5.9				5.9	35.3	35.3	17.6		17	1.4
62 TO 66	10.6	2.6	1.1	1.1	7.4	20.1	41.3	15.3	.5	189	15.2
57 TO 61	4.8	1.2	2.0	1.2	7.8	14.4	41.2	21.2	6.2	500	40.3
52 TO 56	3.7	.8	1.9	.8	8.2	12.9	37.6	22.6	11.5	513	41.4
47 TO 51				11.1	5.6	5.6	5.6	38.9	33.3	18	1.5
42 TO 46				100.0						1	.1
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	5.1	1.4	1.8	1.2	7.8	14.8	39.0	21.0	7.8	1240	100.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS.

WIND DIRECTION

STATION NAME
SAN CLEMENTE, CALIFORNIA

YEARS
JAN 1973-DEC 1977

MONTH
JUNE

HOURS (L.S.T.)
ALL

STATION
93117

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86					100.0	100.0				1	.1
77 TO 81					25.0	50.0	25.0			4	.3
72 TO 76			3.2	3.2	12.9	35.5	35.5	6.5	3.2	31	2.6
67 TO 71	2.9		1.9		11.7	27.2	46.6	6.8	2.9	103	8.6
62 TO 66	4.1	.6	2.3	1.7	8.0	17.6	47.7	16.0	1.9	363	30.3
57 TO 61	.9	.5	1.2	1.2	7.1	16.3	41.1	22.5	9.0	564	47.0
52 TO 56	.8		1.6	1.6	8.7	13.5	42.9	19.8	11.1	126	10.5
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	2.0	.4	1.8	1.3	8.3	16.3	43.3	16.3	6.3	1200	100.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

93117
STATION

SAN CLEMENTE, CALIFORNIA

WIND DIRECTION

JAN 1973-DEC 1977

YEARS

JULY

MONTH

ALL

HOURS (L.S.T.)

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86						100.0				1	.1
77 TO 81			20.0	20.0	20.0	20.0	20.0			5	.4
72 TO 76	6.7	5.0		1.7	5.0	38.3	38.3	3.3	1.7	60	4.8
67 TO 71	4.8	.9	2.6	.4	7.8	30.0	43.0	7.0	3.5	230	18.5
62 TO 66	2.0	.8	1.6	.6	8.1	21.2	48.0	11.3	6.5	496	40.0
57 TO 61	.7	.7	.7	.2	10.5	13.6	48.6	12.2	13.4	418	33.7
52 TO 56					13.3	26.7	43.3	6.7	10.0	30	2.4
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	2.3	.7	1.5	.6	8.9	21.3	46.5	10.2	8.1	1240	100.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

WIND DIRECTION

SAN CLEMENTE, CALIFORNIA

JAN 1973-DEC 1977

AUGUST

ALL

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81											
72 TO 76	5.3	2.1	3.5	1.1	1.8	33.3	47.4	8.8	3.5	2	.2
67 TO 71	4.0	2.1	3.5	1.1	3.9	19.8	50.9	11.0	2.8	57	4.6
62 TO 66	1.7	.3	1.5	.2	7.0	15.5	49.7	14.1	10.2	283	22.8
57 TO 61			.4	1.3	4.6	8.0	57.4	17.3	11.0	660	53.2
52 TO 56									100.0	237	19.1
47 TO 51										1	.1
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	2.3	.6	1.7	.6	5.6	15.9	51.2	13.8	8.4	1240	100.0

NAVWEASERVCOM

5703 REQ. AIR TEMP. VS. WIND DIR. JAN. 68

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

WIND DIRECTION

93117
STATION

SAN CLEMENTE, CALIFORNIA

JAN 1973-DEC 1977

SEPTEMBER

ALL

STATION NAME

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION

TEMP.	NW & N	NNE & NE	ESE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91	25.0	25.0	25.0	25.0	33.3		25.0	16.7		4	.3
82 TO 86	16.7	16.7	16.7		33.3		33.3	22.2		6	.5
77 TO 81					33.3	11.1	33.3	22.2		9	.8
72 TO 76	12.2		6.1	2.0	10.2	30.6	20.4	16.3	2.0	49	4.1
67 TO 71	8.1	2.2	5.5	1.8	6.3	12.3	40.1	19.9	3.7	272	22.7
62 TO 66	1.9	.2	.9	1.7	8.1	10.6	40.5	23.1	13.0	644	53.7
57 TO 61	.9		1.4	.5	8.6	16.7	38.6	17.7	15.3	215	17.9
52 TO 56									100.0	1	.1
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	3.7	.7	2.4	1.6	8.2	12.8	38.9	21.0	10.8	1200	100.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

WIND DIRECTION

SAN CLEMENTE, CALIFORNIA

JAN 1973-DEC 1977

OCTOBER

ALL
HOURS (L.S.T.)

93117
STATION

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86						33.3	33.3	33.3		3	.2
77 TO 81	25.0	9.7	12.9		12.5	37.5	25.0	6.5		6	.6
72 TO 76	16.1	3.1	4.2		9.7	19.4	22.6	3.2		31	2.5
67 TO 71	13.6	2.0	2.0	1.0	2.6	19.4	35.1	16.2	4.7	191	15.4
62 TO 66	7.7	2.0	2.0	1.0	6.2	12.9	37.7	22.0	8.5	504	40.6
57 TO 61	10.4	2.5	.9	2.3	7.4	12.4	33.2	16.7	12.2	443	35.7
52 TO 56	3.5		1.0	12.3	21.1	7.0	19.3	8.8	26.3	57	4.6
47 TO 51			33.3	66.7						3	.2
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	9.7	7.4	2.3	7.1	6.9	13.8	34.1	19.0	9.8	1240	100.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.

WIND DIRECTION

93117 SAN CLEMENTE, CALIFORNIA

JAN 1973-DEC 1977

NOVEMBER

ALL

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86			50.0			50.0				4	.3
77 TO 81	25.0	6.9	25.0	37.5	10.3	12.5	10.3	10.3	10.3	8	.7
72 TO 76	27.6	1.2	13.8	6.9	4.9	3.4	10.3	16.0	7.4	29	2.4
67 TO 71	27.2	3.8	4.9	6.2	5.0	18.3	13.6	23.4	5.0	81	6.8
62 TO 66	17.6	3.8	5.4	2.5	8.1	13.0	24.3	27.3	12.9	239	19.9
57 TO 61	9.9	3.8	2.7	3.6	7.9	9.3	22.3	28.9	17.3	443	36.9
52 TO 56	7.2	4.7	6.3	3.8	16.4	3.8	20.1	14.9	31.3	318	26.5
47 TO 51	3.0	1.5	1.5	16.2	18.2	9.1	7.5	14.9	54.5	67	5.6
42 TO 46										11	.9
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	11.9	3.8	4.8	4.8	7.8	9.0	20.0	24.6	13.3	1200	100.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS.

WIND DIRECTION

SAN CLEMENTE, CALIFORNIA

JAN 1973-DEC 1977

DECEMBER

ALL

STATION NAME
STATION

93117

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81											
72 TO 76											
67 TO 71	10.5	31.6	10.5	5.3	21.1	5.3			100.0	1	.1
62 TO 66	15.1	9.4	6.5	7.9	12.2	18.0			100.0	3	.2
57 TO 61	8.4	3.3	7.0	10.6	12.5	21.7			10.5	19	1.5
52 TO 56	8.0	4.3	4.3	10.0	9.0	19.4			7.9	139	11.2
47 TO 51	7.3	3.7	12.0	18.3	5.2	4.7			10.3	369	29.8
42 TO 46			7.4	33.3	18.5	3.7			19.6	489	39.5
37 TO 41				100.0					28.8	191	15.4
32 TO 36									37.0	27	2.2
27 TO 31										1	.1
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	8.6	4.3	7.8	7.1	11.3	9.8	17.0	16.6	17.4	1239	100.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE

VS.

WIND DIRECTION

SAN CLEMENTE, CALIFORNIA

JAN 1973-DEC 1977

ALL

HOURS (L.S.T.)

MONTH

93117

STATION

STATION NAME

YEARS

WIND DIRECTION

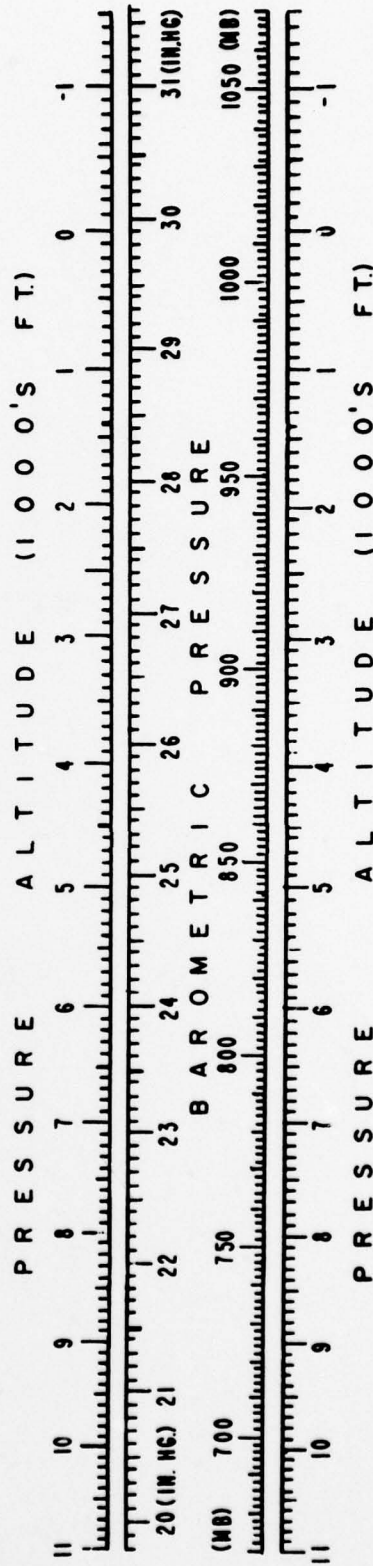
TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91	20.0	20.0	20.0	20.0	20.0	44.4	20.0	11.1		5	.0
82 TO 86	5.6	5.6	16.7	11.1	11.1	44.4	5.6	11.1		18	.1
77 TO 81	8.9	8.9	11.1	8.9	17.8	24.4	13.3	11.1	4.4	43	.3
72 TO 76	9.8	3.9	6.7	2.1	7.7	27.7	29.8	7.7	4.6	285	2.0
67 TO 71	9.8	2.6	5.1	1.9	5.7	20.4	38.1	12.7	4.2	1291	8.8
62 TO 66	6.0	1.6	3.2	1.7	7.0	15.2	39.8	17.8	7.5	3627	24.8
57 TO 61	6.4	1.8	2.9	2.8	7.9	12.9	34.2	21.8	9.3	4494	30.8
52 TO 56	5.8	2.2	3.5	2.8	8.3	9.9	26.7	27.9	12.8	3837	26.3
47 TO 51	6.3	4.3	6.5	6.9	13.8	6.3	11.5	19.1	23.3	860	5.9
42 TO 46	4.5	1.5	12.1	15.2	19.7	3.8	3.8	3.8	35.6	132	.9
37 TO 41		8.3	8.3	16.7	16.7	8.3			41.7	12	.1
32 TO 36									100.0	1	.0
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LVR											
TOTALS	6.4	2.1	3.8	2.8	8.1	13.2	32.2	20.9	10.4	14807	100.0

PART F PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited to January 1946 through December 1963 because of changes in reporting practices before and after those dates.

1. Station pressure in inches of mercury.
2. Sea-level pressure in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure altitude in 1000's of feet. This scale is an enlarged model of the pressure altitude scale in the Smithsonian Meteorological Tables.



MEANS AND STANDARD DEVIATIONS

5707 MEANS AND STANDARD DEVIATIONS JAN 68

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

93117 SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME YEARS

HRS. (L.S.T.)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN 29.89129	MEAN 29.89929	MEAN 29.83129	MEAN 29.82329	MEAN 29.77029	MEAN 29.73129	MEAN 29.75029	MEAN 29.75129	MEAN 29.73829	MEAN 29.79829	MEAN 29.84529	MEAN 29.88529	MEAN 29.80929
	S. D. .107	S. D. .106	S. D. .112	S. D. .087	S. D. .071	S. D. .069	S. D. .061	S. D. .056	S. D. .066	S. D. .072	S. D. .097	S. D. .094	S. D. .103
	TOTAL OBS 155	TOTAL OBS 141	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 1826
04	MEAN 29.88029	MEAN 29.87929	MEAN 29.80629	MEAN 29.80329	MEAN 29.75529	MEAN 29.72129	MEAN 29.74029	MEAN 29.74229	MEAN 29.72529	MEAN 29.78729	MEAN 29.83529	MEAN 29.87529	MEAN 29.79529
	S. D. .107	S. D. .107	S. D. .110	S. D. .087	S. D. .071	S. D. .069	S. D. .061	S. D. .056	S. D. .068	S. D. .072	S. D. .097	S. D. .098	S. D. .103
	TOTAL OBS 155	TOTAL OBS 141	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 1826
07	MEAN 29.89429	MEAN 29.89729	MEAN 29.83229	MEAN 29.83029	MEAN 29.78029	MEAN 29.74729	MEAN 29.76829	MEAN 29.76929	MEAN 29.75329	MEAN 29.80929	MEAN 29.85929	MEAN 29.89529	MEAN 29.81929
	S. D. .110	S. D. .107	S. D. .111	S. D. .088	S. D. .075	S. D. .068	S. D. .062	S. D. .057	S. D. .069	S. D. .073	S. D. .097	S. D. .093	S. D. .102
	TOTAL OBS 155	TOTAL OBS 141	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 1826
10	MEAN 29.93729	MEAN 29.93329	MEAN 29.86529	MEAN 29.85629	MEAN 29.80129	MEAN 29.76729	MEAN 29.78629	MEAN 29.79029	MEAN 29.77629	MEAN 29.83529	MEAN 29.89029	MEAN 29.93329	MEAN 29.84729
	S. D. .108	S. D. .109	S. D. .112	S. D. .084	S. D. .075	S. D. .068	S. D. .060	S. D. .058	S. D. .070	S. D. .075	S. D. .099	S. D. .092	S. D. .105
	TOTAL OBS 155	TOTAL OBS 141	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 1826
13	MEAN 29.88329	MEAN 29.89929	MEAN 29.84229	MEAN 29.83929	MEAN 29.79329	MEAN 29.76029	MEAN 29.77529	MEAN 29.77529	MEAN 29.75129	MEAN 29.79929	MEAN 29.84329	MEAN 29.88029	MEAN 29.82029
	S. D. .110	S. D. .103	S. D. .108	S. D. .083	S. D. .074	S. D. .068	S. D. .058	S. D. .058	S. D. .068	S. D. .072	S. D. .097	S. D. .092	S. D. .097
	TOTAL OBS 155	TOTAL OBS 141	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 1826
16	MEAN 29.86829	MEAN 29.87429	MEAN 29.81129	MEAN 29.80629	MEAN 29.76329	MEAN 29.73329	MEAN 29.74129	MEAN 29.73929	MEAN 29.71729	MEAN 29.77429	MEAN 29.82329	MEAN 29.86429	MEAN 29.79229
	S. D. .109	S. D. .101	S. D. .108	S. D. .082	S. D. .071	S. D. .067	S. D. .058	S. D. .059	S. D. .068	S. D. .071	S. D. .097	S. D. .091	S. D. .099
	TOTAL OBS 155	TOTAL OBS 141	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 1825
19	MEAN 29.88529	MEAN 29.88529	MEAN 29.81629	MEAN 29.80529	MEAN 29.76029	MEAN 29.72629	MEAN 29.73529	MEAN 29.73229	MEAN 29.72129	MEAN 29.78629	MEAN 29.83829	MEAN 29.87629	MEAN 29.79729
	S. D. .108	S. D. .101	S. D. .108	S. D. .083	S. D. .070	S. D. .069	S. D. .058	S. D. .057	S. D. .068	S. D. .071	S. D. .101	S. D. .093	S. D. .103
	TOTAL OBS 155	TOTAL OBS 141	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 1826
22	MEAN 29.90629	MEAN 29.90429	MEAN 29.83929	MEAN 29.82929	MEAN 29.78529	MEAN 29.74629	MEAN 29.76229	MEAN 29.75629	MEAN 29.74629	MEAN 29.80729	MEAN 29.85829	MEAN 29.89429	MEAN 29.81929
	S. D. .107	S. D. .104	S. D. .110	S. D. .085	S. D. .071	S. D. .068	S. D. .059	S. D. .056	S. D. .067	S. D. .070	S. D. .100	S. D. .093	S. D. .103
	TOTAL OBS 155	TOTAL OBS 141	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 150	TOTAL OBS 155	TOTAL OBS 1826
ALL HOURS	MEAN 29.89329	MEAN 29.89629	MEAN 29.83029	MEAN 29.82429	MEAN 29.77629	MEAN 29.74129	MEAN 29.75729	MEAN 29.75729	MEAN 29.74129	MEAN 29.79929	MEAN 29.84929	MEAN 29.88829	MEAN 29.81229
	S. D. .110	S. D. .106	S. D. .111	S. D. .087	S. D. .074	S. D. .070	S. D. .063	S. D. .060	S. D. .070	S. D. .074	S. D. .100	S. D. .095	S. D. .103
	TOTAL OBS 1240	TOTAL OBS 1128	TOTAL OBS 1240	TOTAL OBS 1200	TOTAL OBS 1240	TOTAL OBS 1200	TOTAL OBS 1240	TOTAL OBS 1240	TOTAL OBS 1200	TOTAL OBS 1240	TOTAL OBS 1200	TOTAL OBS 1239	TOTAL OBS 14607

MEANS AND STANDARD DEVIATIONS

5707 MEANS AND STANDARD DEVIATIONS JAN 68

SEA LEVEL PRESSURE IN HRS FROM HOURLY OBSERVATIONS

93117 SAN CLEMENTE, CALIFORNIA

73-77

STATION NAME YEARS

HRS.(LST.)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	1018.2 3.657 155	1018.5 3.616 141	1016.2 3.873 155	1015.9 2.935 150	1014.1 2.418 155	1012.8 2.352 150	1013.4 2.078 155	1013.5 1.883 155	1013.5 2.241 150	1015.0 2.410 155	1016.7 3.298 150	1018.0 3.193 155	1015.4 3.517 1826
04	1017.9 3.640 155	1017.8 3.644 141	1015.4 3.738 155	1015.2 2.951 150	1013.6 2.417 155	1012.5 2.377 150	1013.1 2.096 155	1013.1 1.925 155	1012.6 2.300 150	1014.7 2.441 155	1016.3 3.289 150	1017.7 3.195 155	1015.0 3.499 1826
07	1018.3 3.737 155	1018.4 3.653 141	1016.2 3.779 155	1016.2 2.954 150	1014.4 2.524 155	1013.3 2.321 150	1014.0 2.111 155	1014.1 1.947 155	1013.5 2.339 150	1015.4 2.452 155	1017.1 3.325 150	1018.4 3.161 155	1015.8 3.454 1826
10	1019.8 3.675 155	1019.7 3.711 141	1017.3 3.818 155	1017.0 2.872 150	1015.1 2.542 155	1014.0 2.308 150	1014.7 2.057 155	1014.8 1.944 155	1014.3 2.376 150	1016.3 2.512 155	1018.2 3.359 150	1019.6 3.118 155	1016.7 3.588 1826
13	1018.0 3.742 155	1018.5 3.506 141	1016.6 3.693 155	1016.5 2.831 150	1014.8 2.501 155	1013.8 2.307 150	1014.3 1.987 155	1014.3 1.980 155	1013.4 2.320 150	1015.4 2.443 155	1016.6 3.296 150	1017.9 3.146 155	1015.8 3.315 1826
16	1017.4 3.717 155	1017.6 3.429 141	1015.5 3.671 155	1015.3 2.801 150	1013.9 2.414 155	1012.8 2.286 150	1013.1 1.988 155	1013.0 2.015 155	1012.3 2.322 150	1014.2 2.396 155	1015.9 3.316 150	1017.3 3.071 154	1014.9 3.376 1825
19	1018.0 3.660 155	1018.0 3.429 141	1015.7 3.694 155	1015.3 2.814 150	1013.8 2.380 155	1012.6 2.329 150	1012.9 1.982 155	1012.8 1.937 155	1012.4 2.302 150	1014.7 2.441 155	1016.4 3.440 150	1017.7 3.144 155	1015.0 3.520 1826
22	1018.7 3.621 155	1018.7 3.563 141	1016.5 3.757 155	1016.1 2.897 150	1014.6 2.418 155	1013.3 2.318 150	1013.8 1.997 155	1013.6 1.933 155	1013.3 2.269 150	1015.4 2.379 155	1017.1 3.417 150	1018.3 3.158 155	1015.8 3.496 1826
ALL HOURS	1018.3 3.731 1240	1018.4 3.607 1128	1016.2 3.793 1240	1015.9 2.935 1200	1014.3 2.499 1240	1013.1 2.375 1200	1013.7 2.117 1240	1013.6 2.045 1240	1013.6 2.388 1200	1015.1 2.500 1240	1016.8 3.396 1200	1018.1 3.207 1239	1015.5 3.518 14607